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DATE

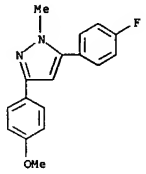
L13 ANSWER 19 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:302811 CAPLUS
DOCUMENT NUMBER: 141:23470
TITLE: Regioselective rapid analog syntheses of 1-methyl-3,5-diarylpyrazoles via palladium-catalyzed coupling to 3(5)-pyrazolyl nonaflates
AUTHOR(S): Bourrain, Sylvie; Ridgill, Mark; Collins, Ian
CORPORATE SOURCE: Department of Medicinal Chemistry, The Neuroscience Research Centre, Merck Sharp and Dohme Research Laboratories, Essex, CM20 2QR, UK
SOURCE: Synlett (2004), (5), 795-798
CODEN: SYNLES; ISSN: 0936-5214
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:23470

AB Regioselective rapid analog syntheses of 1-methyl-3,5-diarylpyrazoles were developed, based on Pd-catalyzed couplings to 1-methyl-3(5)-arylpyrazole nonaflates, which offered an advantage in hydrolytic stability over the corresponding triflates. The new bifunctional reagent 1-methyl-3-bromo-pyrazol-5-yl nonaflate underwent highly chemoselective Pd-catalyzed couplings to the nonaflate, followed by Suzuki couplings to the bromide, allowing sequential, regioselective introduction of the two aryl substituents.

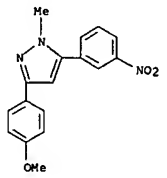
IT 699010-13-4P 699010-22-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(regioselective synthesis of 1-methyl-3,5-diarylpyrazoles through palladium-catalyzed coupling of 1-methyl-3-bromo-pyrazol-5-yl nonaflates)

RN 699010-13-4 CAPLUS
CN 1H-Pyrazole, 5-(4-fluorophenyl)-3-(4-methoxyphenyl)-1-methyl- (9CI) (CA INDEX NAME)



RN 699010-22-5 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-1-methyl-5-(3-nitrophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 19 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L13 ANSWER 20 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:211991 CAPLUS
DOCUMENT NUMBER: 140:264528
TITLE: NR3B1 nuclear receptor-binding 3-substituted pyrazole derivatives, and therapeutic uses
INVENTOR(S): Deuschle, Ulrich; Heck, Stefanie; Kober, Ingo; Bauer, Ulrike; Balogh, Imola
PATENT ASSIGNEE(S): Lion Bioscience A.-G., Germany
SOURCE: Eur. Pat. Appl., 45 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1398029	A1	20040317	EP 2002-20256	20020910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
WO 2004024148	A1	20040325	WO 2003-EP7066	20030702
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003250877	A1	20040430	~~AU 2003-250877~~	20030702
US 2006148876	A1	20060706	US 2005-526940	20051021
PRIORITY APPLN. INFO.:			~~EP 2002-20256~~	A 20020910
			WO 2003-EP7066	W 20030702

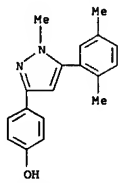
OTHER SOURCE(S): MARPAT 140:264528

AB The invention discloses pyrazole derivs. which bind to the NR3B1 receptor and act as antagonists of the NR3B1 receptor. The invention further relates to the treatment of diseases and/or conditions through binding of the nuclear receptor by the compds., as well as the production of medicaments using the compds.

IT 362006-35-7
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(NR3B1 nuclear receptor-binding pyrazole derivs., and therapeutic uses)

RN 362006-35-7 CAPLUS
CN Phenol, 4-[5-(2,5-dimethylphenyl)-1-methyl-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

L13 ANSWER 20 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Karen Cheng

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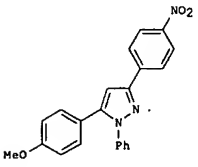
L13 ANSWER 21 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:58889 CAPLUS
DOCUMENT NUMBER: 140:253486
TITLE: Regioselective synthesis of 1,3,5-substituted pyrazoles from acetylenic ketones and hydrazines
AUTHOR(S): Bishop, Brian C.; Brands, Karel M. J.; Gibb, Andrew D.; Kennedy, Derek J.
CORPORATE SOURCE: Merck Sharp & Dohme Research Laboratories, Department of Process Research, Hertfordshire, EN11 9BU, UK
SOURCE: Synthesis (2004), (1), 43-52
CODEN: SYNTBF; ISSN: 0039-7881
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 140:253486
GI

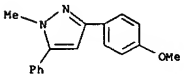


I

AB The synthesis of 1,3,5-trisubstituted pyrazoles, e.g., I, from the reaction of acetylenic ketones with substituted hydrazines, is reported. The reactions were shown to be highly regioselective regardless of the nature of the substituents in the substrates and afforded essentially single pyrazole isomers in excellent yields.

IT 56119-91-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(regioselective preparation and crystal structure of pyrazoles via heterocyclization of diarylpropynones with hydrazines followed by dehydration)

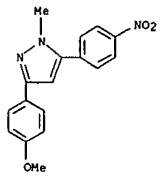
RN 56119-91-6 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-1-methyl-5-phenyl- (9CI) (CA INDEX NAME)



IT 669714-78-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(regioselective preparation of pyrazoles via heterocyclization of

L13 ANSWER 21 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
diarylpropynones with hydrazines followed by dehydration)

RN 669714-78-7 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-1-methyl-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 22 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:551386 CAPLUS
DOCUMENT NUMBER: 139:117209
TITLE: Preparation of biaryl phosphate transport inhibitors
INVENTOR(S): Jozefiak, Thomas H.; Bastos, Cecilia M.; Papoulis, Andrew T.; Holmes-Farley, Stephen Randall
PATENT ASSIGNEE(S): Genzyme Corporation, USA
SOURCE: PCT Int. Appl., 135 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003057225	A2	20030717	WO 2002-US41481	20021224
WO 2003057225	A3	20040408		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004019113	A1	20040129	US 2002-327627	20021220
US 7119120	B2	20061010		
AU 2002367396	A1	20030724	AU 2002-367396	20021224
EP 1466638	A2	20041013	EP 2002-806234	20021224
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
JP 2005514413	T	20050519	JP 2003-557583	20021224
US 2007021509	A1	20070125	US 2006-489286	20060719
PRIORITY APPLN. INFO.:			US 2001-344660P	P 20011226
			US 2002-371649P	P 20020410
			US 2002-327627	A1 20021220
			WO 2002-US41481	W 20021224
OTHER SOURCE(S):	MARPAT 139:117209			

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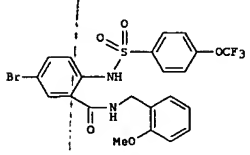


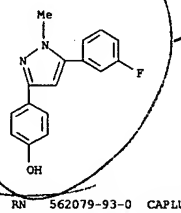
II

AB Disclosed are compds. Ar1-W-X-Y-Ar2 [Ar1-2 = (un)substituted aryl group or 5-6 membered non-aromatic group fused to a (un)substituted monocyclic aryl group; W, Y = covalent bond, alkylene; X = SO2, SO2-alkyl, SO2-amino, etc; I] which are inhibitors of phosphate transport. For instance,

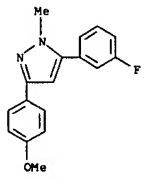
L13 ANSWER 22 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
5-bromo-2-[[(4-trifluoromethoxyphenyl)sulfonyl]amino]benzoic acid (prepn. given) is converted to the acid chloride (SOCl2, reflux) and used to acylate 2-methoxybenzyl amine (THF) to give II. Example compds. inhibit phosphate transport in rabbit intestinal brush border membrane vesicles; a select group of example compds. has IC50 = 0-50 μM. I are used to treat a disease assocd. with hyperphosphatemia, as well as a disease mediated by phosphate-transport function.

IT 362016-88-4P 562079-93-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of biaryl phosphate transport inhibitors)

RN 362016-88-4 CAPLUS
CN Phenol, 4-[5-(3-fluorophenyl)-1-methyl-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

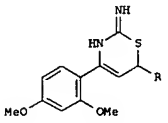


RN 562079-93-0 CAPLUS
CN 1H-Pyrazole, 5-(3-fluorophenyl)-3-(4-methoxyphenyl)-1-methyl- (9CI) (CA INDEX NAME)



Karen Cheng

L13 ANSWER 26 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:764121 CAPLUS
DOCUMENT NUMBER: 136:183780
TITLE: A facile one-pot synthesis and antibacterial activity of aziridines and thiazines from 1,3-diarylprop-2-enones
AUTHOR(S): Madkour, H. M. F.; Salem, M. A. I.; Soliman, E. A.; Mahmoud, N. F. H.
CORPORATE SOURCE: Synthetic Organic Chemistry Laboratory, Chemistry Department, Faculty of Science, Ain Shams University, Cairo, Egypt
SOURCE: Phosphorus, Sulfur and Silicon and the Related Elements (2001), 170, 15-27
CODEN: PSSLEC; ISSN: 1042-6507
PUBLISHER: Gordon & Breach Science Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:183780
GI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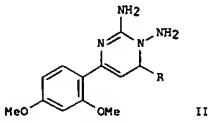
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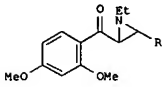
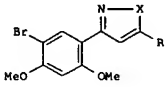
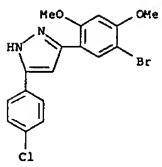

III


IV

AB Propenones 2,4-(MeO)2C6H3COCH:CHR [R = 4-ClC6H4, 3,4-(OCH2O)C6H3] were used in the synthesis of some heterocycles, e.g. thiazines I, pyrimidines II, and aziridines III. The unexpected tribromides, obtained from bromination of 2,4-(MeO)2C6H3COCH:CHR, were used to afford pyrazoles IV (X = NH) and isoxazoles IV (X = O). Biol. screening of some of the synthesized compds. was determined in vitro using gram-neg. and gram-pos. bacterial strains.
IT 399557-45-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(bactericidal activity of dimethoxyphenyl thiazines, pyrimidines, aziridines, pyrazoles, and oxazoles prepared from (dimethoxyphenyl)propenones)
RN 399557-45-0 CAPLUS
CN 1H-Pyrazole, 3-(5-bromo-2,4-dimethoxyphenyl)-5-(4-chlorophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 26 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 27 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:624135 CAPLUS
DOCUMENT NUMBER: 135:190413
TITLE: Heterocyclic compounds for enhancing Apo AI expression and treating atherosclerosis
INVENTOR(S): Ishizuka, Natsuki; Nagata, Kiyoshi; Yamamori, Teruo; Sakai, Katsunori
PATENT ASSIGNEE(S): Shionogi and Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 49 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

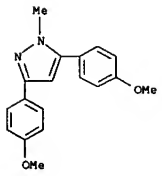
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001233767	A	20010828	JP 2000-48509	20000225
WO 2003018008	A1	20030306	WO 2001-JP7238	20010824
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1419770	A1	20040519	EP 2001-958448	20010824
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004248950	A1	20041209	US 2004-487599	20040318
PRIORITY APPLN. INFO.:			JP 2000-48509 A	20000225
			WO 2001-JP7238 W	20010824

GI


I

AB The heterocyclic compds. (I: Y1 = O, S, NR1, Y2, Y3, Y4, Y5 = CR2 or N, CR3 or N, CR4 or N, CR5 or N, resp., with R1 = A1, -Z-A2, H, low alkyl, etc., R2, R3, R4, R5, A1, -Z-A2 = H, halogen, etc., Y1, Y2, Y3, Y4, Y5 = A1, -Z-A2, -Z- single bond, -CR6=CR7-, with R6, R7 = H, low alkyl, A1, A2 = aryl, heterocyclic, etc.) and their prodrugs and pharmaceutically acceptable salts are claimed for enhancing Apo AI expression and treating atherosclerosis. Formulation examples of tablets, capsules, and granules were given.
IT 43222-90-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(heterocyclic compds. for enhancing Apo AI expression and treating atherosclerosis)
RN 43222-90-8 CAPLUS
CN 1H-Pyrazole, 3,5-bis(4-methoxyphenyl)-1-methyl- (9CI) (CA INDEX NAME)

L13 ANSWER 27 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



103

Karen Cheng

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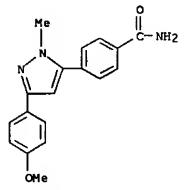
L13 ANSWER 28 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:237641 CAPLUS
DOCUMENT NUMBER: 135:272915
TITLE: Automated robotic parallel synthesis of a small-molecule library using multistep reactions on solid support
AUTHOR(S): Chaturvedi, Surendrakumar; Fisher, Peter V.; Otteson, Kenneth M.; Bergot, B. John
CORPORATE SOURCE: Applied Biosystems, Foster City, CA, USA
SOURCE: High-Throughput Synthesis (2001), 169-186. Editor(s): Sucholeiki, Irving. Marcel Dekker, Inc.: New York, N. Y.
CODEN: 69BBQR
DOCUMENT TYPE: Conference
LANGUAGE: English
OTHER SOURCE(S): CASREACT 135:272915

AB Robotically based parallel solid-phase organic synthesis (SPOS) is attaining widespread acceptance for production of discrete mols. on the multimilligram scale. The synthesis of a 24-member pyrazole library prepared via sequential Claisen condensation and hydrazine cyclization on support-loaded 4-acetylbenzoic acid using an automated robotic workstation is described.

IT 362607-22-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(automated robotic parallel synthesis of a pyrazole library using multistep reactions on solid support)

RN 362607-22-5 CAPLUS
CN Benzamide, 4-[3-(4-methoxyphenyl)-1-methyl-1H-pyrazol-5-yl]- (9CI) (CA INDEX NAME)



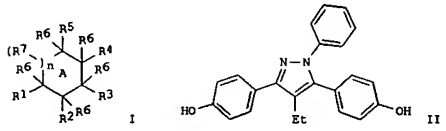
REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 29 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:240935 CAPLUS
DOCUMENT NUMBER: 132:279214
TITLE: Preparation of non-steroidal estrogen receptor subtype-selective ligands
INVENTOR(S): Katzenellenbogen, John A.; Katzenellenbogen, Benita S.; Fink, Brian E.; Stauffer, Shaun R.; Mortensen, Deborah S.; Sattigeri, Viswajanani Jitendra; Huang, Ying
PATENT ASSIGNEE(S): Board of Trustees of the University of Illinois, USA
SOURCE: PCT Int. Appl., 134 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000019994	A1	20000413	WO 1999-US22747	19991001

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 1998-102881P P 19981002
OTHER SOURCE(S): MARPAT 132:279214
GI

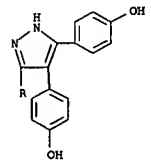


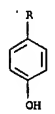
AB Ph substituted pyrazoles, cyclopentadienes, furans, pyrimidines, and their analogs (I) [wherein x = 0 or 1; when x = 0, A = doubly unsatd. 5-membered ring; when x = 1, A = aromatic 6-membered ring; R1 = (un)substituted Ph; R2-R5 and R7 = independently H, basic or polar group, or (un)substituted Ph, alkyl, alkenyl, or alkynyl; or R7 is not present; R6 = H, basic or polar group, or (un)substituted alkyl, alkenyl, alkynyl, or alkoxy; or R6 is not present] were prepared for selective regulation of cellular activity under the control of estrogen receptor (ER) and for the treatment of

L13 ANSWER 29 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
hormone-dependent disorders, such as hormone-responsive breast cancer. I have modular structures, which are amenable to solid phase synthesis and the application of combinatorial synthetic methods (no data). I exhibit a spectrum of selective affinities for ERα and ERβ and a spectrum of agonist/antagonist properties. For example, 2-ethyl-1,3-bis(4-methoxyphenyl)-1,3-propanedione was treated with Ph hydrazine.HCl in DMF/THF (89%), followed by BBr3 demethylation in CH2Cl2 to give II (54%). The latter displayed a relatively high ER binding affinity (RBA = 14.0). II also proved to be an ERα potency selective agonist compared to estradiol and showed a 120-fold higher potency in activating transcription via ERα than via ERβ.

IT 263717-88-0
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of non-steroidal estrogen receptor subtype-selective ligands)

RN 263717-88-0 CAPLUS
CN Phenol, 4,4',4''-(1H-pyrazole-3,4,5-triyl)tris- (9CI) (CA INDEX NAME)

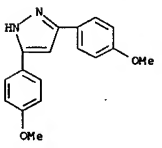




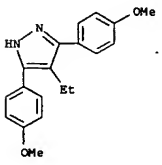
IT 75059-30-2P, 3,5-Di(4-methoxyphenyl)-1H-pyrazole
234093-23-3P, 4-Ethyl-3,5-di(4-methoxyphenyl)-1H-pyrazole
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(target compound; preparation of non-steroidal estrogen receptor subtype-selective ligands)

RN 75059-30-2 CAPLUS
CN 1H-Pyrazole, 3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 29 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

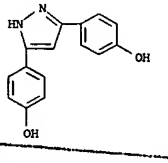


RN 234093-23-3 CAPLUS
CN 1H-Pyrazole, 4-ethyl-3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



IT 137646-99-2P, 3,5-Di(4-hydroxyphenyl)-1H-pyrazole
234093-05-1P, 4-Ethyl-3,5-di(4-hydroxyphenyl)-1H-pyrazole
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(target compound; preparation of non-steroidal estrogen receptor subtype-selective ligands)

RN 137646-99-2 CAPLUS
CN Phenol, 4,4'-(1H-pyrazole-3,5-diyl)bis- (9CI) (CA INDEX NAME)

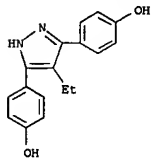


RN 234093-05-1 CAPLUS
CN Phenol, 4,4'-(4-ethyl-1H-pyrazole-3,5-diyl)bis- (9CI) (CA INDEX NAME)

Karen Cheng

103

L13 ANSWER 29 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 30 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

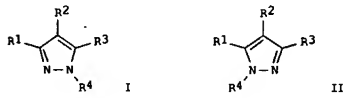
ACCESSION NUMBER: 2000:117030 CAPLUS
DOCUMENT NUMBER: 132:166234
TITLE: Preparation of estrogen receptor modulating pyrazoles
INVENTOR(S): Huebner, Verena D.; Lin, Xiaodong; James, Ian; Chen, Liya; Desai, Manoj; Krywult, Beata; Singh, Rajinder; Wang, Liang
PATENT ASSIGNEE(S): Chiron Corp., USA
SOURCE: PCT Int. Appl., 124 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000007996	A2	19990806	WO 1999-US17799	19990806
WO 2000007996	A3	20000831		
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9954677	A	20000228	AU 1999-54677	19990806
EP 1102753	A2	20010530	EP 1999-940917	19990806
EP 1102753	B1	20070228		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
US 6291505	B1	20010918	US 1999-369747	19990806
JP 2002522422	T	20020723	JP 2000-563630	19990806
US 2002111374	A1	20020815	US 2001-954039	20010918
US 2004034081	A9	20040219		
US 6727273	B2	20040427		
US 2004077701	A1	20040422	US 2003-461914	20030612

PRIORITY APPLN. INFO.:

US 1998-95772P	P	19980807
US 1998-95773P	P	19980807
US 1999-369747	A3	19990806
WO 1999-US17799	W	19990806
US 2001-954039	A1	20010918

OTHER SOURCE(S): MARPAT 132:166234
GI

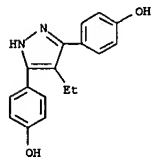


L13 ANSWER 30 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

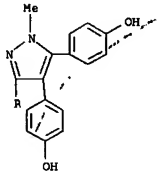
AB The title compds. [I and II; R1, R3 = alkyl, aryl, heteroaryl, etc.; R2 = H, halo, CN, etc.; R4 = H, CO2H, CHO, etc.] which have been found to have unexpected and surprising activity in modulating estrogen receptor activity, and therefore are useful for treating or preventing estrogen receptor-mediated disorders such as osteoporosis, breast and endometrial cancers, atherosclerosis, and Alzheimer's disease, were prepared E.g., a multi-step synthesis of II [R1 = Ph2CH; R2 = Et; R3 = 4-HOC6H4; R4 = Me], starting with 4'-methoxybutyrylphenone and 2,2-diphenylacetyl chloride, was given (no data for intermediates). Biol. data for compds. I and II were presented.

IT 234093-05-1P 258845-56-6P 258847-19-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of estrogen receptor modulating pyrazoles)

RN 234093-05-1 CAPLUS
CN Phenol, 4,4'-(4-ethyl-1H-pyrazole-3,5-diyl)bis- (9CI) (CA INDEX NAME)



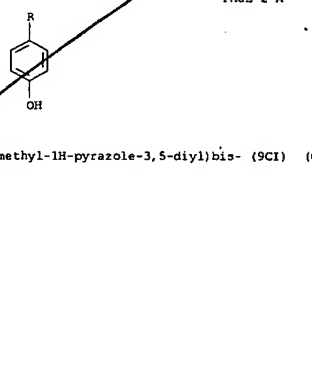
RN 258845-56-6 CAPLUS
CN Phenol, 4,4',4''-(1-methyl-1H-pyrazole-3,4,5-triyl)tris- (9CI) (CA INDEX NAME)



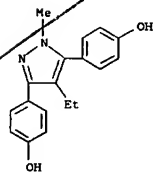
PAGE 1-A

L13 ANSWER 30 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A



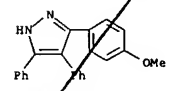
RN 258847-19-7 CAPLUS
CN Phenol, 4,4'-(4-ethyl-1-methyl-1H-pyrazole-3,5-diyl)bis- (9CI) (CA INDEX NAME)



L13 ANSWER 31 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:769183 CAPLUS
DOCUMENT NUMBER: 132:137330
TITLE: Photochemistry of N-heterocycles, 6.* Effect of substituents on photochemically induced reduction of some 2(4),5-dihydro-1,2,4-triazines
AUTHOR(S): Madarasz, Zoltan; Hertelendi, Csaba; Nagy, Jozsef; Fekete, Jeno; Kajtar-Peredy, Maria; Nyitrai, Jozsef
CORPORATE SOURCE: Department of Organic Chemistry, Technical University of Budapest, Budapest, H-1521, Hung.
SOURCE: ACH - Models in Chemistry (1999), 136(4), 393-405
CODEN: ACMCEI; ISSN: 1217-8969
PUBLISHER: Akademiai Kiado
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:137330
GI

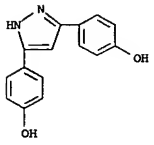
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Photochem. induced ring contractions of dihydrotriazine derivs. I (R = H, Me; R1 = Cl, MeO) and II (R = H, Me; R1 = Cl, MeO) to give aryimidazoles III, arylpyrazoles IV, and phenanthroimidazoles V have been studied to find the effect of electron-withdrawing and -donating groups at position 4 of the 3-aryl group. The relative reaction rates of different fragmentation pathways have been measured and the ratios of extrusion of N(1) and N(2) in the 2-Me series were studied. The results support a mechanism invoking electron transfer from isopropanol to the triazine followed by ring opening and then ring closing with loss of a nitrogen.
IT 115037-31-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of pyrazoles, imidazoles and phenanthroimidazoles by a photochem. fragmentation of diphenyldihydrotriazine derivative and the effect of aryl substitution on the rate of fragmentation)
RN 115037-31-5 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-4,5-diphenyl- (9CI) (CA INDEX NAME)



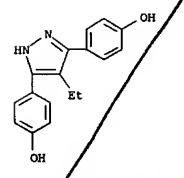
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 32 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:327909 CAPLUS
DOCUMENT NUMBER: 131:125589
TITLE: Novel structural templates for estrogen-receptor ligands and prospects for combinatorial synthesis of estrogens
AUTHOR(S): Fink, Brian E.; Mortensen, Deborah S.; Stauffer, Shaun R.; Aron, Zachary D.; Katzenellenbogen, John A.
CORPORATE SOURCE: Department of Chemistry, University of Illinois, Urbana, IL, 61801, USA
SOURCE: Chemistry & Biology (1999), 6(4), 205-219
CODEN: CBOLE2; ISSN: 1074-5521
PUBLISHER: Current Biology Publications
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The development of estrogen pharmaceutical agents with appropriate tissue-selectivity profiles has not yet benefited substantially from the application of combinatorial synthetic approaches to the preparation of structural classes that are known to be ligands for the estrogen receptor (ER). We have developed an estrogen pharmacophore that consists of a simple heterocyclic core scaffold, amenable to construction by combinatorial methods, onto which are appended 3-4 peripheral substituents that embody substructural motifs commonly found in nonsteroidal estrogens. The issue addressed here is whether these heterocyclic core structures can be used to prepare ligands with good affinity for the ER. We prepared representative members of various azole core structures. Although members of the imidazole, thiazole or isoxazole classes generally have weak binding for the ER, several members of the pyrazole class show good binding affinity. The high-affinity pyrazoles bear close conformational relationship to the nonsteroidal ligand raloxifene, and they can be fitted into the ligand-binding pocket of the ER-raloxifene X-ray structure. Compds. such as these pyrazoles, which are novel ER ligands, are well suited for combinatorial synthesis using solid-phase methods.
IT 137646-99-2P 234093-05-1P
RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)
(azoles as structural templates for estrogen-receptor ligands and prospects for combinatorial synthesis of estrogens)
RN 137646-99-2 CAPLUS
CN Phenol, 4,4'-(1H-pyrazole-3,5-diyl)bis- (9CI) (CA INDEX NAME)

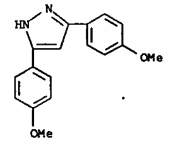


RN 234093-05-1 CAPLUS

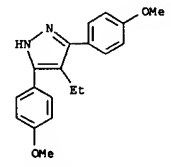
L13 ANSWER 32 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN Phenol, 4,4'-(4-ethyl-1H-pyrazole-3,5-diyl)bis- (9CI) (CA INDEX NAME)



IT 75059-30-2P 234093-23-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(in pyrazoles preparation as structural templates for estrogen-receptor ligands and prospects for combinatorial synthesis of estrogens)
RN 75059-30-2 CAPLUS
CN 1H-Pyrazole, 3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

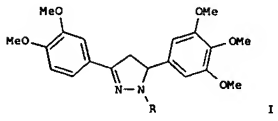


RN 234093-23-3 CAPLUS
CN 1H-Pyrazole, 4-ethyl-3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



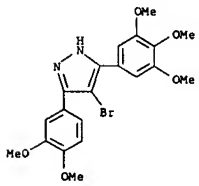
REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 33 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1998:725992 CAPLUS
DOCUMENT NUMBER: 130:110192
TITLE: Synthesis of some new 3,5-bisaryl-2-pyrazoline derivatives of expected antimicrobial activities
AUTHOR(S): Haiza, Mohammed A.
CORPORATE SOURCE: Abha Branch, College of Education Department of Chemistry, King Saud University, Abha, Saudi Arabia
SOURCE: Al-Azhar Bulletin of Science (1997), 8(2), 445-454
CODEN: ABSCE7; ISSN: 1110-2535
PUBLISHER: Al-Azhar University, Faculty of Science
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB Diarylpyrazolines I (R = H, Ph, Me, 4-MeC6H4SO2, CHO, MeCO, EtCO, F3CCO, PhCO, NO, 2-HO2CC6H4CO; R1 = H, Br) are prepared from 3,3',4,4',5-pentamethoxychalcone and hydrazine derivs. or from I (R = R1 = H) by acylation or nitrosylation and tested for their antibacterial and antifungal activities. I possess moderate to high activity against Staphylococcus ATCC-6538-P, Bacillus cereus NRRL-B-659 (Gram pos.), Serratia marcescens IMRV-70, Proteus merabitis NTC-289 (Gram neg.), and Aspergillus fumgytus PP-29 at 250 ppm.
IT 219698-45-0
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)
(preparation of diarylpyrazolines with antibacterial and antifungal activity)
RN 219698-45-0 CAPLUS
CN 1H-Pyrazole, 4-bromo-3-(3,4-dimethoxyphenyl)-5-(3,4,5-trimethoxyphenyl)- (9CI) (CA INDEX NAME)



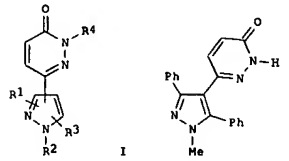
Karen Cheng

L13 ANSWER 33 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 34 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:184649 CAPLUS
DOCUMENT NUMBER: 126:171616
TITLE: Preparation of (3-oxo-2,3-dihydropyridazin-6-yl)pyrazoles as adenosine antagonists
INVENTOR(S): Akahane, Atsushi; Kuroda, Satoru; Itani, Hiromichi
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9701551	A1	19970116	WO 1996-JP1747	19960624
W: JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 11508267	T	19990721	JP 1996-504305	19960624
PRIORITY APPLN. INFO.:			GB 1995-12964 A	19950626
			AU 1996-8010 A	19960212
			WO 1996-JP1747 W	19960624

OTHER SOURCE(S): CASREACT 126:171616; MARPAT 126:171616
GI

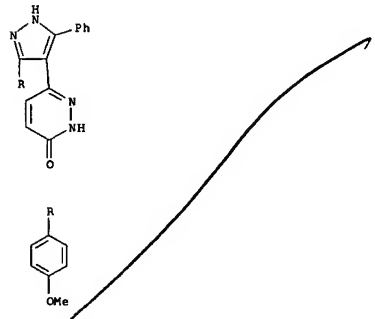


I II

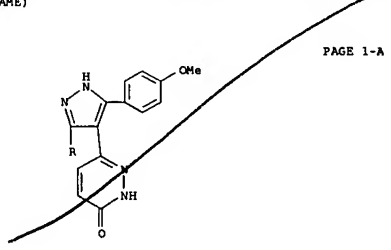
AB The title compds. [I; R1, R3 = H, lower alkyl, ar(lower)alkyl, heterocyclic group, aryl; R2 = H, lower alkyl, ar(lower)alkyl; R4 = H, lower alkyl], useful for the prevention and/or the treatment of ischemic heart diseases (e.g. angina, etc.), peripheral vascular diseases (e.g. claudication, etc.), cerebral ischemia, migraine, diabetes, depression, Parkinson's disease, and the like, were prepared Thus, refluxing 4-acetyl-3,5-diphenyl-1-methylpyrazole with glyoxylic acid monohydrate in 1,2-dimethoxyethane followed by addition of 80% hydrazine monohydrate, and heating at 125° for 2 h afforded II which showed more than 80% inhibition at the cloned human A2a adenosine receptor at 1.0x10-6 M.

IT 187342-82-1P 187342-86-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (3-oxo-2,3-dihydropyridazin-6-yl)pyrazoles as adenosine

L13 ANSWER 34 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
antagonists)
RN 187342-82-1 CAPLUS
CN 3(2H)-Pyridazinone, 6-[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



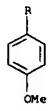
RN 187342-86-5 CAPLUS
CN 3(2H)-Pyridazinone, 6-[3,5-bis(4-methoxyphenyl)-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



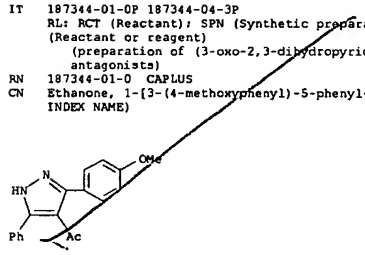
PAGE 1-A

L13 ANSWER 34 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

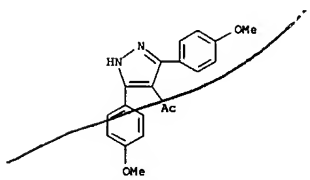
PAGE 2-A



IT 187344-01-0P 187344-04-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of (3-oxo-2,3-dihydropyridazin-6-yl)pyrazoles as adenosine antagonists)
RN 187344-01-0 CAPLUS
CN Ethanone, 1-[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



RN 187344-04-3 CAPLUS
CN Ethanone, 1-[3,5-bis(4-methoxyphenyl)-1H-pyrazol-4-yl]- (9CI) (CA INDEX NAME)



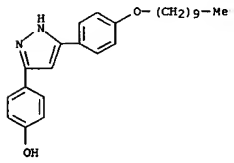
10526940elected

L13 ANSWER 35 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:86817 CAPLUS
DOCUMENT NUMBER: 126:179299
TITLE: FLCs with a five-membered ring in the mesogenic core
AUTHOR(S): Iglesias, R.; Serrano, J. L.; Sierra, T.
CORPORATE SOURCE: Fac. Cienc.-Inst. Cienc. Mater. Aragon, Univ. Zaragoza, Zaragoza, 50009, Spain
SOURCE: Liquid Crystals (1997), 22(1), 37-46
CODEN: LICRE6; ISSN: 0267-8292
PUBLISHER: Taylor & Francis
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A study was undertaken of the structure-activity relation of eight new chiral compds. having either a pyrazole or an isoxazole ring as a central bridge in the mesogenic core. The presence of dimers in the pyrazole compds. accounts for their lower Ps values in comparison with the isoxazole analogs. The corresponding four β-diketone precursors also were studied and these, as expected given their bent mol. shape, show much worse mesomorphic and ferroelec. behavior. To complete the study, the mol. dipoles of the three types of derivative were determined using AM1 calcns.
Two types of chiral tail were incorporated into the compds.: alkoxy and alkanoyloxy. The latter tail gives rise to the best mesomorphic and ferroelec. properties. A study of the tail conformation by MM2 calcns. provides an explanation of these results. The highest Ps value (137 nC cm-2) was obtained for the isoxazole derivative with the (2S)-2-butyloxypropanoyloxy chiral tail. The potential of all twelve compds. as chiral dopants for FLC mixts. was evaluated by a study of 10 mol.% binary mixts. in a standard host system.

IT 187334-75-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with Bu lactate)

RN 187334-75-4 CAPLUS
CN Phenol, 4-[5-[4-(decyloxy)phenyl]-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

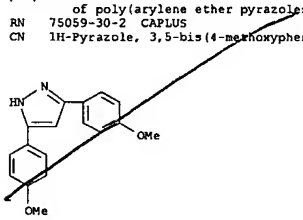


L13 ANSWER 36 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996:614968 CAPLUS
DOCUMENT NUMBER: 125:248658
TITLE: Synthesis and properties of poly(arylene ether pyrazole)s
AUTHOR(S): Srinivasan, K. R.; Bass, R. G.; Smith, J. G.
CORPORATE SOURCE: Dep. Chem., Virginia Commonwealth Univ., Richmond, VA, 23284-2006, USA
SOURCE: High Performance Polymers (1996), 8(3), 381-393
CODEN: HPPOEX; ISSN: 0954-0083
PUBLISHER: Institute of Physics Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Poly(arylene ether pyrazole)s containing NH and NPh groups were prepared by the
aromatic nucleophilic displacement reaction of two new bisphenols containing a
pyrazole ring with activated aromatic dihalides in N,N-dimethylacetamide at 155° in the presence of anhydrous potassium carbonate. The polymers exhibited glass transition temps. (Tg) ranging from 190-296° and inherent viscosities from 0.44-1.96 dL g-1. Poly(arylene ether-pyrazole)s containing NH groups exhibited higher Tg and mech. properties than the corresponding N-phenyl-containing poly(arylene ether pyrazole)s. The chemical,
phys. and mech. properties of these polymers are discussed.

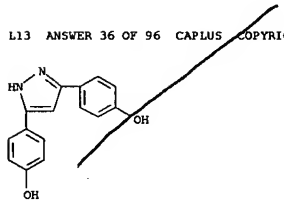
IT 75059-30-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; in synthesis of bis(hydroxyphenyl)pyrazoles for preparation
of poly(arylene ether pyrazoles))

RN 75059-30-2 CAPLUS
CN 1H-Pyrazole, 3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



IT 137646-99-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(monomer; for synthesis of bis(hydroxyphenyl)pyrazoles)

RN 137646-99-2 CAPLUS
CN Phenol, 4,4'-(1H-pyrazole-3,5-diyl)bis- (9CI) (CA INDEX NAME)



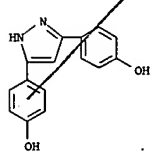
L13 ANSWER 36 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IT 137647-00-8P 137647-01-9P 137661-49-5P
182233-43-8P 182233-58-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis and properties of poly(arylene ether pyrazoles))

RN 137647-00-8 CAPLUS
CN Phenol, 4,4'-(1H-pyrazole-3,5-diyl)bis-, polymer with 1,1'-sulfonylbis[4-chlorobenzene] (9CI) (CA INDEX NAME)

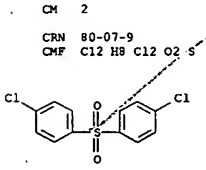
CM 1

CRN 137646-99-2
CMF C15 H12 N2 O2



CM 2

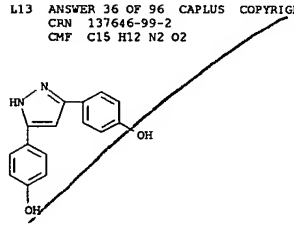
CRN 80-07-9
CMF C12 H8 Cl2 O2 S



RN 137647-01-9 CAPLUS
CN Methanone, 1,3-phenylenebis[(4-chlorophenyl)-, polymer with 4,4'-(1H-pyrazole-3,5-diyl)bis[phenol] (9CI) (CA INDEX NAME)

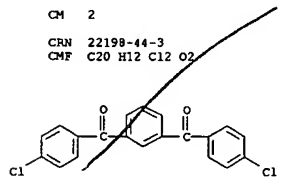
CM 1

L13 ANSWER 36 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CRN 137646-99-2
CMF C15 H12 N2 O2



CM 2

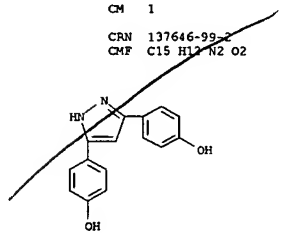
CRN 22198-44-3
CMF C20 H12 Cl2 O2



RN 137661-49-5 CAPLUS
CN Methanone, bis(4-chlorophenyl)-, polymer with 4,4'-(1H-pyrazole-3,5-diyl)bis[phenol] (9CI) (CA INDEX NAME)

CM 1

CRN 137646-99-2
CMF C15 H12 N2 O2

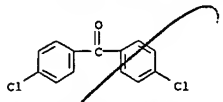


CM 2

CRN 90-98-2
CMF C13 H8 Cl2 O

Karen Cheng

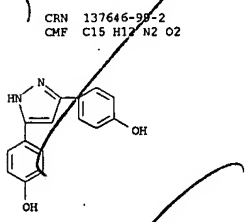
L13 ANSWER 36 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 182233-43-8 CAPLUS
CN Methanone, 1,4-phenylenebis[(4-fluorophenyl)-, polymer with 4,4'-(1H-pyrazole-3,5-diyl)bis[phenol] (9CI) (CA INDEX NAME)

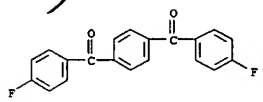
CM 1

CRN 137646-99-2
CMF C15 H12 N2 O2



CM 2

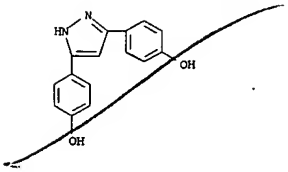
CRN 68018-51-9
CMF C20 H12 F2 O2



RN 182233-58-5 CAPLUS
CN Phenol, 4,4'-(1H-pyrazole-3,5-diyl)bis-, polymer with bis(4-fluorophenyl)phenylphosphine oxide (9CI) (CA INDEX NAME)

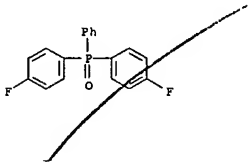
CM 1

CRN 137646-99-2
CMF C15 H12 N2 O2



CM 2

CRN 54300-32-2
CMF C18 H13 F2 O P



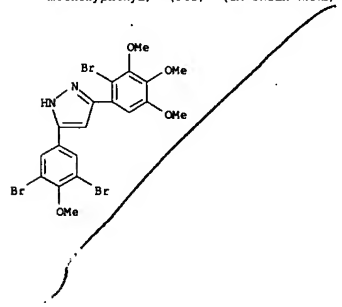
L13 ANSWER 37 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:402285 CAPLUS
DOCUMENT NUMBER: 122:290768
TITLE: Some reactions of (3,4,5-trimethoxybenzylidene)-4-methoxyacetophenone
AUTHOR(S): Mahmoud, M. R.; Ebrahim, Awatef E. F.; Abd-El-Halim, M. S.; Radwan, A. M.
CORPORATE SOURCE: Faculty Science, Ain Shams University, Cairo, Egypt
SOURCE: Indian Journal of Heterocyclic Chemistry (1994), 4(2), 131-6
CODEN: IJCHEI; ISSN: 0971-1627
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Some new pyrazolines have been prepared by the reaction of (3,4,5-trimethoxybenzylidene)-4-methoxyacetophenone (1) with hydrazines in different media. Unexpected bromination is observed on treatment of 1 with bromine to give the pentabromo derivative, which was reacted with hydrazine hydrate and hydroxylamine hydrochloride. The behavior of 1 towards Et phenylacetate, Et cyanoacetate, and di-Et homophthalate under Michael conditions has also been studied. Reaction of 1 with thioglycollic and thiobarbituric acids have also been studied.

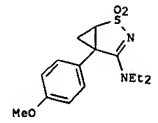
IT 163074-74-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(reactions of (trimethoxybenzylidene)methoxyacetophenone)

RN 163074-74-6 CAPLUS
CN 1H-Pyrazole, 3-(2-bromo-3,4,5-trimethoxyphenyl)-5-(3,5-dibromo-4-methoxyphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 38 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1995:113273 CAPLUS
DOCUMENT NUMBER: 123:143706
TITLE: Isothiazoles. Part 3. Cycloadditions of diazoalkanes to 3-dialkylaminoisothiazole 1,1-dioxides. Competitive ring cleavage in 3a,4-dihydro-6aH-pyrazolo[3,4-d]isothiazole 1,1-dioxides: formation of 2-thia-3-azabicyclo[3.1.0]hex-3-ene 2,2-dioxides and/or pyrazoles
AUTHOR(S): Clerici, Francesca; Ferrario, Tiziano; Gelmi, Maria Luisa; Marelli, Roberto
CORPORATE SOURCE: Ist. Chim. Org., Univ. Milano, Milano, I-20133, Italy
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1994), (18), 2533-6
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 123:143706
GI



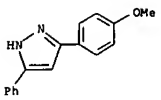
III

AB 3-Dialkylaminoisothiazole 1,1-dioxides readily undergo cycloaddns. with diazoalkanes. The reaction is characterized by high site- and regio-selectivity. Cycloadducts, e.g. I and II, were found to undergo straightforward thermolysis reactions at elevated temperature through two different paths characterized resp. by loss of nitrogen or sulfur dioxide and diethylcyanamide. The different transformations affording pyrazoles and derivs. of the new heterocycle 2-thia-3-azabicyclo[3.1.0]hex-3-ene 2,2-dioxide III are discussed.

IT 32664-28-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(cycloaddns. of diazoalkanes with dialkylaminoisothiazole dioxides and competitive ring cleavage of dihydropyrazoloisothiazole dioxides)

RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)

L13 ANSWER 38 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



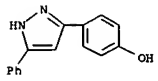
L13 ANSWER 39 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:639383 CAPLUS
DOCUMENT NUMBER: 121:239383
TITLE: Stability constants of iron(III), chromium(III) and aluminum(III) chelates with some substituted pyrazoles
AUTHOR(S): Sawalakhe, P. D.; Narwade, M. L.; Wadodkar, K. N.
CORPORATE SOURCE: Department of Chemistry, Vidarbha Mahavidyalaya, Amravati, 444 604, India
SOURCE: Journal of the Indian Chemical Society (1994), 71(1), 49-51
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The interactions of Fe3+, Cr3+ and Al3+ metal ions with 3-(2-hydroxyphenyl)-5-phenylpyrazole, 3-(2-hydroxy-5-methylphenyl)-5-phenylpyrazole and 3-(2-hydroxy-5-methylphenyl)-5-(4-methoxyphenyl)pyrazole have been investigated potentiometrically in 70% dioxane-water mixture as a solvent at 0.1 M ionic strength. The proton-ligand and metal-ligand stability consts. were determined

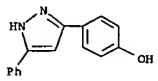
IT 75059-29-9
RL: PRP (Properties); RCT (Reactant); RACT (Reactant or reagent)
(ionization constant of)

RN 75059-29-9 CAPLUS
CN Phenol, 4-(5-phenyl-1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)



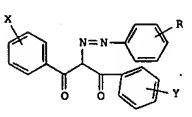
IT 75059-29-9D, transition metal complexes .
RL: FMU (Formation, unclassified); PRP (Properties); FORM (Formation, nonpreparative)
(stability constant of)

RN 75059-29-9 CAPLUS
CN Phenol, 4-(5-phenyl-1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)

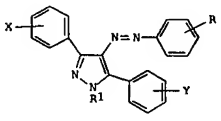


L13 ANSWER 40 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:457376 CAPLUS
DOCUMENT NUMBER: 121:57376
TITLE: Heterocyclic compounds. Part XLI: Some 1-simple/substituted-3 5-diaryl-4-(arylazo)pyrazoles
AUTHOR(S): Has, Chandra; Saharia, G. S.; Sharma, D. P.; Sharma, H. R.
CORPORATE SOURCE: Chem. Dep., Univ. Delhi, Delhi, 110007, India
SOURCE: Journal of the Institution of Chemists (India) (1992), 64(1), 39-42
CODEN: JOICA7; ISSN: 0020-3254
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I



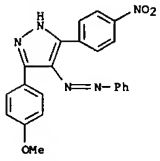
II

AB Condensation of 1,3-diaryl-2-(arylazo)-1,3-diones (R, X, Y = NO, alkyl, etc. substituent) with hydrazine derivs, gave the title compds. I (R, R1, X, Y = NO2, alkyl, etc. substituent) were prepared from. Some I were screened for antibacterial activity.

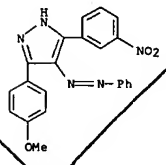
IT 155841-38-6P 155841-39-7P 155841-40-0P
155841-41-1P 155841-42-2P 155841-43-3P
155841-44-4P 155841-45-5P 155841-46-6P
155841-47-7P 155841-48-8P 155841-49-9P
155841-50-2P 155841-51-3P 155841-52-4P
155841-53-5P 155841-54-6P 155841-55-7P
155841-56-8P 155841-57-9P 155841-58-0P
155841-59-1P 155841-60-4P 155841-61-5P
155841-62-6P 155841-63-7P 155841-64-8P
155841-65-9P 155841-66-0P 155841-67-1P
155841-68-2P 155841-69-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 155841-38-6 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-(4-nitrophenyl)-4-(phenylazo)- (9CI) (CA INDEX NAME)

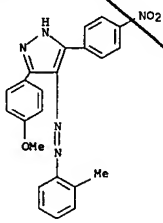
L13 ANSWER 40 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 155841-39-7 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-(3-nitrophenyl)-4-(phenylazo)- (9CI) (CA INDEX NAME)

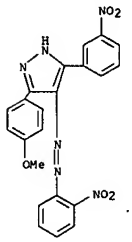


RN 155841-40-0 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-4-[(2-methylphenyl)azo]-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

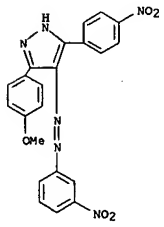


RN 155841-41-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-4-[(2-methylphenyl)azo]-5-(3-nitrophenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 40 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

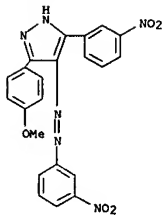


RN 155841-66-0 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-(4-nitrophenyl)-4-[(3-nitrophenyl)azo]-(9CI) (CA INDEX NAME)

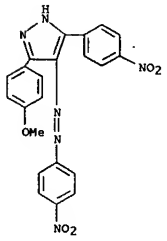


RN 155841-67-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-(3-nitrophenyl)-4-[(3-nitrophenyl)azo]-(9CI) (CA INDEX NAME)

L13 ANSWER 40 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

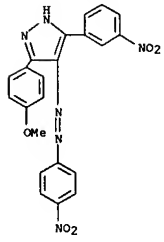


RN 155841-68-2 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-(4-nitrophenyl)-4-[(4-nitrophenyl)azo]-(9CI) (CA INDEX NAME)



RN 155841-69-3 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-(3-nitrophenyl)-4-[(4-nitrophenyl)azo]-(9CI) (CA INDEX NAME)

L13 ANSWER 40 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

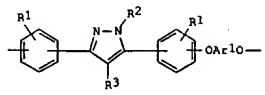


L13 ANSWER 41 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:135439 CAPLUS
DOCUMENT NUMBER: 120:135439
TITLE: Aromatic polyethers containing pyrazole units and monomers for their preparation
INVENTOR(S): Pfaendner, Rudolf; Wolf, Jean Pierre; Kainmueller, Thomas; Kramer, Andreas; Hoffmann, Kurt; Stockinger, Friedrich
PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.
SOURCE: Ger. Offen., 17 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4230839	A1	19930325	DE 1992-4230839	19920915
PRIORITY APPLN. INFO.:			CH 1991-2753 A	19910918

GI



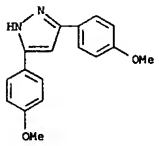
I

AB Polyethers with good thermal stability and solubility in organic solvents contain 1-100 mol% segments I (R1, R3 = alkyl, alkoxy, aryl, aryloxy, halogen; R2 = H, alkyl, Ph; Ar1 = dihalogenated arylene activated for nucleophilic exchange) and 99-0 mol% segments -OAr2OAr1- (Ar2 = arylene). Treatment of Et 4-methoxybenzoate with NaH and then condensation with 4-methoxyacetophenone in glyme gave 68% 1,3-bis(4-methoxyphenyl)-1,3-propanedione, cyclization of which with N2H4.H2O gave 42% 3,5-bis(4-methoxyphenyl)pyrazole, which was demethylated by C5H5N.HCl in 61% yield to the bisphenol (II). Heating II 0.0501, 4,4'-sulfonyldiphenol 0.1562, (4-ClC6H4)2SO2 0.2001, and K2CO3 0.2116 mol for 6 h at 225-280° gave a polyether with reduced viscosity 0.45 dL/g, glass temperature 223°, decomposition temperature (TGA) 510°, and solubility in N-methylpyrrolidone and CH2Cl2 >25%.

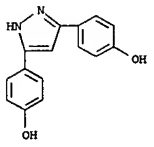
IT 75059-30-2P, 3,5-Bis(4-methoxyphenyl)pyrazole
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation and demethylation of)

RN 75059-30-2 CAPLUS
CN 1H-Pyrazole, 3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 41 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 137646-99-2P, 4,4'-(3,5-Pyrazolediyl)diphenol
RL: PREP (Preparation)
(preparation of)
RN 137646-99-2 CAPLUS
CN Phenol, 4,4'-(1H-pyrazole-3,5-diyl)bis- (9CI) (CA INDEX NAME)

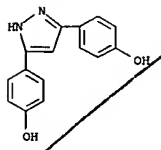


IT 151485-79-9P
RL: PREP (Preparation)
(preparation of heat-resistant, with good solubility)
RN 151485-79-9 CAPLUS
CN Phenol, 4,4'-(1H-pyrazole-3,5-diyl)bis-, polymer with 1,1'-sulfonylbis[4-chlorobenzene] and 4,4'-sulfonylbis[phenol] (9CI) (CA INDEX NAME)

CM 1

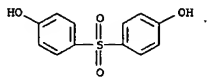
CRN 137646-99-2
CMF C15 H12 N2 O2

L13 ANSWER 41 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



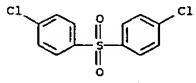
CM 2

CRN 80-09-1
CMF C12 H10 O4 S



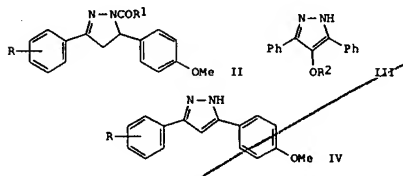
CM 3

CRN 80-07-9
CMF C12 H8 Cl2 O2 S



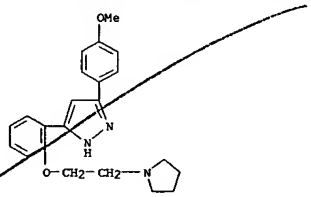
L13 ANSWER 42 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:449296 CAPLUS
DOCUMENT NUMBER: 119:49296
TITLE: Synthesis and biological properties of 2-pyrrolidinoethoxy derivatives of 3,5-diarylpyrazoles and 2-pyrazolines
AUTHOR(S): Sangwan, Naresh K.; Verma, Braham S.; Dhindsa, Kuldip Singh
CORPORATE SOURCE: Dep. Chem. Biochem., Haryana Agric. Univ., Hisar, 125 004, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1993), 32B(4), 508-12
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 119:49296
GI

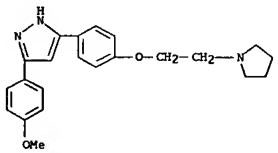


AB Cyclization of hydroxymethoxychalcones RC6H4COCH:CHC6H4OMe-4 (I, R = 2-OH, 4-OH) with hydrazine hydrate in refluxing formic or acetic acid gives acylaryl(hydroxyphenyl)pyrazolines II (R1 = H, Me). Alkylation of I and II and 4-hydroxy-3,5-diphenylpyrazole (III, R2 = H) with N-(2-chloroethyl)pyrrolidinium chloride affords the resp. pyrrolidinoethoxy compds., e.g., I [R = 2-[2-(pyrrolidino)ethoxy], 4-[2-(pyrrolidino)ethoxy]] and III [R2 = 2-[pyrrolidino)ethyl]. Addition of bromine to I [R = 2-[2-(pyrrolidino)ethoxy], 4-[2-(pyrrolidino)ethoxy]] followed by cyclization of the resulting dibromopropanones with hydrazine hydrate provides (methoxyphenyl)[(pyrrolidinoethoxy)phenyl]pyrazoles IV. Alkylation of III (R2 = H) with Et chloroacetate followed by treatment of resulting III (R2 = CH2CO2Et) with substituted amines furnishes the corresponding acetamide derivs. III (R2 = CH2COR4, R4 = Me2CHNH, pyrrolidino, morpholino). None of the tested compds. shows any antifertility or antifungal activity.
IT 148404-17-5P 148404-18-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 148404-17-5 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-[2-[2-(1-pyrrolidinyl)ethoxy]phenyl]- (9CI) (CA INDEX NAME)

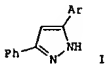
L13 ANSWER 42 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 148404-18-6 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-[4-[2-(1-pyrrolidinyl)ethoxy]phenyl]- (9CI) (CA INDEX NAME)

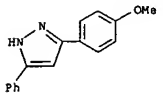


L13 ANSWER 43 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1992:490202 CAPLUS
DOCUMENT NUMBER: 117:90202
TITLE: Reaction of ethyl glycinate with 1-aryl-3-phenylprop-2-yn-1-ones
AUTHOR(S): Fouli, F. A.; Shaban, M. E.; El-Nagdy, E. I.; Youssef, A. S. A.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Egyptian Journal of Chemistry (1990), Volume Date 1988, 31(4), 463-7
CODEN: EGJCA3; ISSN: 0367-0422
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

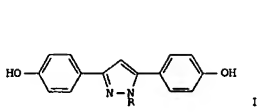


I

AB Nucleophilic addition of PhC.tplbond.CCOAr [Ar = (un)substituted Ph] with H2NCH2CO2Et afforded keto/enol tautomers of EtO2CCH2NHCPh:CHCOAr; attempts to cyclize the latter to pyrroles were unsuccessful, but reaction with hydrazine afforded pyrazole tautomers, e.g., I.
IT 32664-28-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as tautomers)
RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 44 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991:680692 CAPLUS
DOCUMENT NUMBER: 115:280692
TITLE: Synthesis of poly(arylene ether pyrazoles) by aromatic nucleophilic displacement reactions
AUTHOR(S): Bass, R. G.; Srinivasan, K. R.
CORPORATE SOURCE: Dep. Chem., Virginia Commonw. Univ., Richmond, VA, 23284-2006, USA
SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1991), 32(1), 619-20
CODEN: ACPPAY; ISSN: 0032-3934
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

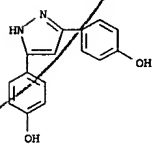


I

AB Title polyethers were prepared by the condensation of bisphenols I (R = H, Ph) with dihalides 4-R1C6H4XC6H4R1-4 (R1 = Cl, F; X = CO, SO2, isophthaloyl, terephthaloyl, 4-COC6H4OC6H4CO-4).
IT 137647-00-8P 137647-01-9P 137647-02-0P
137661-49-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and properties of)
RN 137647-00-8 CAPLUS
CN Phenol, 4,4'-(1H-pyrazole-3,5-diyl)bis-, polymer with 1,1'-sulfonylbis[4-chlorobenzene] (9CI) (CA INDEX NAME)

CM 1

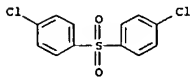
CRN 137646-99-2
CMF C15 H12 N2 O2



CM 2

L13 ANSWER 44 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

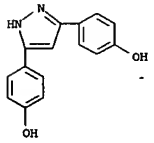
CRN 80-07-9
CMF C12 H8 Cl2 O2 S



RN 137647-01-9 CAPLUS
CN Methanone, 1,3-phenylenebis[(4-chlorophenyl)-, polymer with 4,4'-(1H-pyrazole-3,5-diyl)bis[phenol] (9CI) (CA INDEX NAME)

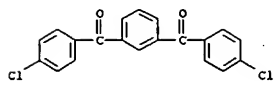
CM 1

CRN 137646-99-2
CMF C15 H12 N2 O2



CM 2

CRN 22198-44-3
CMF C20 H12 Cl2 O2

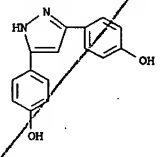


RN 137647-02-0 CAPLUS
CN Methanone, 1,4-phenylenebis[(4-chlorophenyl)-, polymer with 4,4'-(1H-pyrazole-3,5-diyl)bis[phenol] (9CI) (CA INDEX NAME)

CM 1

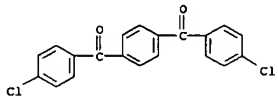
CRN 137646-99-2
CMF C15 H12 N2 O2

L13 ANSWER 44 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2

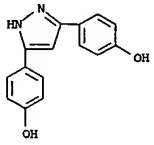
CRN 22198-42-1
CMF C20 H12 Cl2 O2



RN 137661-49-5 CAPLUS
CN Methanone, bis(4-chlorophenyl)-, polymer with 4,4'-(1H-pyrazole-3,5-diyl)bis[phenol] (9CI) (CA INDEX NAME)

CM 1

CRN 137646-99-2
CMF C15 H12 N2 O2

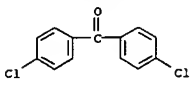


CM 2

CRN 90-98-2
CMF C13 H8 Cl2 O

Karen Cheng

L13 ANSWER 44 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



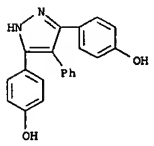
L13 ANSWER 45 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1991:584050 CAPLUS
DOCUMENT NUMBER: 115:184050
TITLE: Synthesis of poly(arylene ether pyrazoles) by aromatic nucleophilic displacement reactions
AUTHOR(S): Bass, R. G.; Srinivasan, K. R.; Smith, Joseph G.
CORPORATE SOURCE: Dep. Chem., Virginia Commonw. Univ., Richmond, VA, 23284-2006, USA
SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (1991), 32(2), 160-1
CODEN: ACPPAY; ISSN: 0032-3934
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Several title polymers were prepared from activated aromatic dihalides and 3,5-bis(4-hydroxyphenyl)-4-phenylpyrazole or 3,5-bis(4-hydroxyphenyl)-1,4-diphenylpyrazole. Preparation of the pyrazole group-containing monomers is also described.

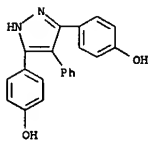
IT 136788-47-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and polymerization of)

RN 136788-47-1 CAPLUS
CN Phenol, 4,4'-(4-phenyl-1H-pyrazole-3,5-diyl)bis- (9CI) (CA INDEX NAME)



IT 136788-47-1DP, polymers with aromatic dihalides
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and properties of)

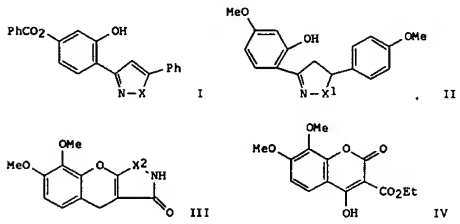
RN 136788-47-1 CAPLUS
CN Phenol, 4,4'-(4-phenyl-1H-pyrazole-3,5-diyl)bis- (9CI) (CA INDEX NAME)



L13 ANSWER 45 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L13 ANSWER 46 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

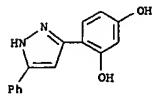
ACCESSION NUMBER: 1991:122159 CAPLUS
DOCUMENT NUMBER: 114:122159
TITLE: Synthesis of some derivatives of diaryl-substituted pyrazole and isoxazole and substituted chromenopyrazoline and chromenoisoxazoline
AUTHOR(S): Khan, M. S. Y.; Khan, M. H.; Kumar, Mahesh; Javed, K.
CORPORATE SOURCE: Hamdard Coll. Pharm., New Delhi, 110 062, India
SOURCE: Journal of the Indian Chemical Society (1990), 67(8), 689-91
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 114:122159
GI



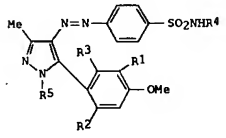
AB The preparation of a number of title compds, including, I (X = NPh, O), II (X1 = NH, O), and III (X2 = NH, O), via cyclocondensation of 4,2-R(HO)C6H3COR1 (R = PhCO2, R1 = PhCOCH2; R = MeO, R1 = 4-MeOC6H4CH:CH) or hydroxydimethoxycoumarincarboxylate IV with hydrazines or hydroxylamine is reported.

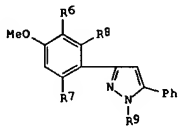
IT 38214-70-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 38214-70-9 CAPLUS
CN 1,3-Benzenediol, 4-(5-phenyl-1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)



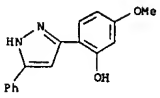
L13 ANSWER 47 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1990:20958 CAPLUS
DOCUMENT NUMBER: 112:20958
TITLE: Synthesis and antimicrobial activities of some new 1-substituted 3-(2'-hydroxyaryl)-5-phenylpyrazoles and 1-substituted 5-aryl-3-methyl-4-(N1-substituted p-sulfamylbenzeneazo)pyrazoles
AUTHOR(S): Ahluwalia, V. K.; Mittal, Bina; Singh, Raj P.; Singh, Rishi P.; Mann, Raj Rani; Singh, Shashi Bala
CORPORATE SOURCE: Dep. Chem., Univ. Delhi, Delhi, 110 007, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1989), 28B(2), 150-3
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 112:20958
GI


I

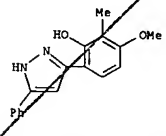

II

AB A new and convenient synthesis of the title compds. I (R1 = H, Me; R2 = H, Me; R3 = OMe, R4 = 2-pyrimidinyl derivative, R5 = 4-MeC6H4, isonicotinoyl) and II [R6 = H, Me; R7 = H, OMe; R8 = OH, R9 = H, Ph, 4-MeC6H4, 2,4-(O2N)2C6H3] has been achieved by the cyclocondensation of substituted β-diketones with various substituted hydrazines in the presence of glacial acetic acid. These compds. have also been screened for their antifungal and antibacterial activities.
IT 124259-87-6P 124259-91-2P 124259-94-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antimicrobial activity of)
RN 124259-87-6 CAPLUS
CN Phenol, 5-methoxy-2-(5-phenyl-1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)

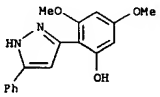
L13 ANSWER 47 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



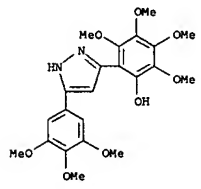
RN 124259-91-2 CAPLUS
CN Phenol, 3-methoxy-2-methyl-6-(5-phenyl-1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)



RN 124259-94-5 CAPLUS
CN Phenol, 3,5-dimethoxy-2-(5-phenyl-1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)

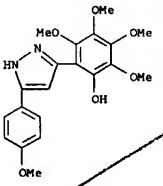


L13 ANSWER 48 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989:4643 CAPLUS
DOCUMENT NUMBER: 110:4643
TITLE: Isolation of 4,4'-dimethoxy-trans-stilbene and flavonoids from leaves and twigs of Vitex negundo Linn
AUTHOR(S): Banerji, J.; Das, B.; Chakrabarty, R.; Jha, H.
CORPORATE SOURCE: Dep. Chem., Univ. Coll. Sci., Calcutta, 700 009, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1988), 27B(6), 597-9
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 110:4643
AB The leaves and twigs of V. negundo afforded a stilbene derivative characterized as 4,4'-dimethoxy-trans-stilbene (I), along with 5 flavones, 5,6,7,8,3',4',5'-heptamethoxy (II), 5-hydroxy-6,7,8,3',4'-pentamethoxy (5-O-desmethylnobiletin), 5-hydroxy-6,7,8,3',4',5'-hexamethoxy (gardenin A), 5-hydroxy-6,7,8,4'-tetramethoxy (gardenin B) (III) and 5-hydroxy-7,3',4',5'-tetramethoxyflavone (corymbosin) (IV). This is the first report of I as a natural product. I has been converted into 3,6-dimethoxyphenanthrene. The flavones II, III, and IV undergo interesting rearrangements when treated with hydrazine hydrate to generate pyrazoles.
IT 117783-83-2P 117783-84-3P 117804-02-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 117783-83-2 CAPLUS
CN Phenol, 2,3,4,5-tetramethoxy-6-[5-(3,4,5-trimethoxyphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

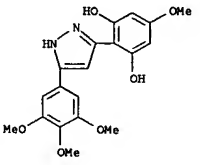


RN 117783-84-3 CAPLUS
CN Phenol, 2,3,4,5-tetramethoxy-6-[5-(4-methoxyphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

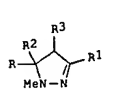
L13 ANSWER 48 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 117804-02-1 CAPLUS
CN 1,3-Benzenediol, 5-methoxy-2-[5-(3,4,5-trimethoxyphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

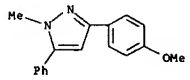


L13 ANSWER 52 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1983:438408 CAPLUS
DOCUMENT NUMBER: 99:38408
TITLE: Heterocycles. 2. Regiospecific addition of methylhydrazine to acetylenic ketones
AUTHOR(S): El-Rayyes, N. R.; Hovakeemian, G. H.; Hammoud, H.
CORPORATE SOURCE: Chem. Dep., Kuwait Univ., Kuwait, Kuwait
SOURCE: Organic Magnetic Resonance (1983), 21(4), 243-5
CODEN: ORMRBD; ISSN: 0030-4921
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

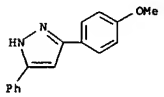


I, R=Ph, R1=p-MeOC6H4, R2=R3=H
II, R=p-MeOC6H4, R1=Ph, R2=R3=H
III, R=Ph, R1=p-MeOC6H4, R2R3=bond
IV, R=p-MeOC6H4, R1=Ph, R2R3=bond

AB Cyclization of PhCH:CHCOC6H4OMe-p and p-MeOC6H4CH:CHCOPh with MeNHNH2 gave I and II, resp., which on oxidation gave III and IV resp. PhC.tplbond.CCOC6H4OMe-p and MeNHNH2 gave III.
IT 56119-91-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 56119-91-6 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-1-methyl-5-phenyl- (9CI) (CA INDEX NAME)



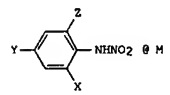
L13 ANSWER 53 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1982:142374 CAPLUS
DOCUMENT NUMBER: 96:142374
TITLE: Acetylenic ketones. 8. Synthesis and spectroscopic studies of some hydrazones
AUTHOR(S): Baddar, Fawzi G.; Al-Hajjar, Farouk H.; El-Rayyes, Nizar R.
CORPORATE SOURCE: Dep. Chem., Kuwait Univ., Kuwait, Kuwait
SOURCE: Journal of Chemical and Engineering Data (1982), 27(2), 213-17
CODEN: JCEAAX; ISSN: 0021-9568
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 96:142374
AB RC.tplbond.CCOR1 (R = R1 = Ph; R = p-ClC6H4, R1 = Ph) and R2COR3 (R2 = Ph, p-ClC6H4, p-MeOC6H4, R3 = H; R2 = Ph, R3 = Me) reacted with H2NNHCO2R4 (R4 = Et, Me) to give the corresponding RCOCH2CR1:NNHCO2R4, and R2CR3:NNHCO2R4. UV, IR and NMR spectra of these compds. are presented.
IT 32664-28-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation, IR, UV, and NMR of)
RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 54 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1982:47568 CAPLUS
DOCUMENT NUMBER: 96:47568
TITLE: Control of stem growth and stem stiffness of selected crops
INVENTOR(S): O'Neal, Thomas Denny; Bhalla, Prithvi Raj; Cross, Barrington
PATENT ASSIGNEE(S): American Cyanamid Co. , USA
SOURCE: Eur. Pat. Appl., 41 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 34281	A2	19810826	EP 1981-100632		19810129
EP 34281	A3	19820203			
R: BE, CH, DE, FR, GB, IT, NL, SE					
JP 57011955	A	19820121	JP 1980-65846		19800517
ZA 8003117	A	19810930	ZA 1980-3117		19800523
AU 8058751	A	19810827	AU 1980-58751		19800526
US 4367339	A	19830104	US 1980-179335		19800818
ZA 8100620	A	19820331	ZA 1981-620		19810129
BR 8100892	A	19810825	BR 1981-892		19810213
PRIORITY APPLN. INFO.:			US 1980-122643	A	19800219
			US 1980-179335	A	19800818

GI



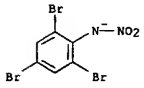
I

AB 2,4,6-Trisubstituted-N-nitroanaline salts I (X, Y, Z = halogen, C1-3 alkyl, C1-3 alkoxy, -CO2 alkyl (C1-3), CN, CF3, SO2F, SO2CHF2; M = organic or inorg.) are suitable as lodging inhibitors and enhancers of axillary branching, canopy development, flowering, and yield of crop plants. Thus, the 1,2-di-Me-3,5-diphenylpyrazolium salt of 2,4,6-tribromo-N-aci-nitroaniline [80510-56-1] at 0.1m kg/ha and 2,4,6-tribromo-N-nitroaniline Na salt [79630-30-1] at 0.25 kg/ha reduced height of barley and soybean by 37.8 and >40%, resp., in comparison the untreated controls. Preparation procedures for 2,4,6-trisubstituted N-nitroaniline salts are described.
IT 80510-36-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and phytoregulatory activity of)
RN 80510-36-7 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, salt with 2,4,6-tribromo-N-nitrobenzenamine (1:1) (9CI) (CA INDEX NAME)

CM 1

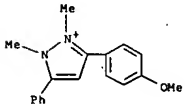
CRN 79630-47-0

L13 ANSWER 54 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CMF C6 H2 Br3 N2 O2

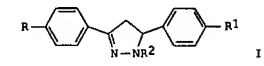


CM 2

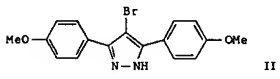
CRN 49867-84-7
CMF C18 H19 N2 O



L13 ANSWER 55 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1981:121394 CAPLUS
DOCUMENT NUMBER: 94:121394
TITLE: Syntheses and spectroscopic characterization of some new 3,5-bisaryl-2-pyrazoline derivatives. II
AUTHOR(S): Sayed, G. H.; Kjoesen, H.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Journal fuer Praktische Chemie (Leipzig) (1980), 322(5), 716-22
CODEN: JPCEAO; ISSN: 0021-8383
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 94:121394
GI

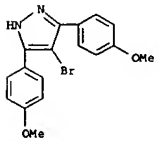


I

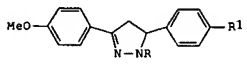


II

AB Pyrazolines I (R, R1 = H, OMe; R2 = H) were prepared by cyclizing 4-RC6H4COCH:CHC6H4R1-4 with N2H4. I (R = R1 = OMe, R2 = Ph) was similarly obtained with PhNHNH2. I (R2 = SO2Ph, acyl, CH2Ph, CONHPh, CSNHPh, NO) were obtained by substitution in I (R2 = H). Treatment of I (R = R1 = OMe, R2 = H) with CH2O gave methylenebis(pyrazoline). Bromination of I (R = R1 = OMe, R2 = H) gave the bromopyrazole II.
IT 76973-57-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 76973-57-4 CAPLUS
CN 1H-Pyrazole, 4-bromo-3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

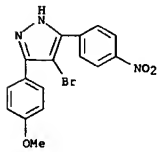


L13 ANSWER 56 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1980:639304 CAPLUS
DOCUMENT NUMBER: 93:239304
TITLE: Synthesis of some new pyrazolines from 4-nitro- and 4-chloro-4'-methoxybenzalacetophenones. Part III.
AUTHOR(S): Sayed, G. H.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1980), 19B(5), 364-7
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 93:239304
GI

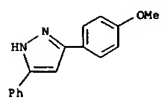


I

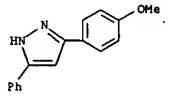
AB Some new pyrazolines I (R = H, acyl, alkyl, Ph, arylsulfonyl, carbamoyl, NO; R1 = NO2, Cl) were prepared by the reaction of 4-MeOC6H4COCH:CHC6H4R1-4 with RNHNH2 and RCO2H. The new pyrazolines were converted into different derivs.
IT 75745-47-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 75745-47-0 CAPLUS
CN 1H-Pyrazole, 4-bromo-3-(4-methoxyphenyl)-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



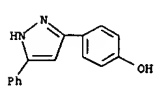
L13 ANSWER 57 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1980:603802 CAPLUS
DOCUMENT NUMBER: 93:203802
TITLE: Stereochemistry of base-catalyzed addition of methyl mercaptoacetate to acetylenic ketones and esters. Effects of activating groups and solvents
AUTHOR(S): Basyouni, Mohamed Nabih; Omar, Mohamed Tawfik; Ghali, Edwar Amin
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Bulletin of the Chemical Society of Japan (1980), 53(6), 1739-42
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Piperidine-catalyzed addition of Me mercaptoacetate (I) to benzoyl- and p-chlorobenzoyl-phenylacetylenes in EtOH gave the corresponding (Z)-1-aryl-3-(methoxycarbonylmethylthio)-3-phenyl-2-propen-1-one. However, p-anisoylphenylacetylene gave a mixture of (Z)- and (E)-3-(methoxycarbonylmethylthio)-1-(p-methoxyphenyl)-3-phenyl-2-propen-1-ones in the ratio of 4:1. This ratio was completely inverted when the latter addition was carried out in dry C6H6. Activating groups and solvents influenced the stereochem. of addition Piperidine-catalyzed addition of I to Me
phenylpropionate in EtOH gave Me (Z)-3-(methoxycarbonylmethylthio)cinnamate. Hydrazine hydrate converted some of the above mono-adducts into some pyrazole derivs.
IT 32664-28-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 58 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1980:567052 CAPLUS
DOCUMENT NUMBER: 93:167052
TITLE: Luminescence properties of arylpyrazoles
AUTHOR(S): Udachin, Yu. M.; Chursinova, L. V.; Przheval'skii, N. M.; Grandberg, I. I.; Tokmakov, G. P.
CORPORATE SOURCE: Mosk. S-kh. Akad., Moscow, USSR
SOURCE: Izvestiya Timiryazevskoi Sel'skokhozyaistvennoi Akademii (1980), (3), 162-9
CODEN: ITSAA7; ISSN: 0021-342X
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB The absorption and emission spectra and luminescence quantum yields of mono-, di-, and triarylpyrazoles were determined in different solvents and at
liquid N and room temperature Steric effects played a major role, e.g., 1,5-diarylpyrazoles exhibited absorption maximum at shorter wavelengths than 1,3- or 1,4-diarylpyrazoles owing to aryl ring interaction, which decreased the coplanarity of the mol. Triarylpyrazoles showed severe fluorescence quenching for the same reason. Calcn. of the charge distribution in the ground (S0) and excited singlet (S1) states of 1,3-diphenylpyrazole indicated that excitation was accompanied by transfer of electron d. from N-1, C-3, and the 3-Ph ring to N-2.
IT 32664-28-1 75059-29-9 75059-30-2
RL: PRP (Properties)
(absorption and fluorescence spectra of)
RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)

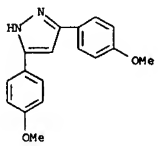


RN 75059-29-9 CAPLUS
CN Phenol, 4-(5-phenyl-1H-pyrazol-3-yl)- (9CI) (CA INDEX NAME)



RN 75059-30-2 CAPLUS
CN 1H-Pyrazole, 3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 58 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

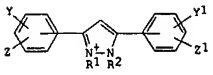


L13 ANSWER 59 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1980:17174 CAPLUS
DOCUMENT NUMBER: 92:17174
TITLE: Herbicidal combinations
INVENTOR(S): Feeny, Richard W.
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: U.S., 13 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4170464	A	19791009	US 1977-822504	19770808
US 3867403	A	19750218	US 1972-307670	19721117
PRIORITY APPLN. INFO.:			US 1972-307670	A3 19721117
			US 1974-518020	A2 19741025

GI



I

AB Mixts. of 1,2-dialkyl-3,5-diphenylpyrazolium salts and chlorophenoxyalkanoates or the diphenylpyrazolium chlorophenoxyalkanoates I (R1 and R2 = alkyl; R3 = Cl or Me; R4 = H or Me; Y, Y1, Z, Z1 = H, halo, Me, or MeO) are synergistic herbicides. Thus, a composition containing 1,2-dimethyl-3,5-diphenylpyrazolium Me sulfate [43222-48-6] (1.12 kg/ha) and 2,4-D dimethylamine salt [2008-39-1] (0.56 kg/ha) almost totally controlled pepperweed, pennycress, and shepherd's purse, with min. phytotoxicity to winter wheat, whereas the pyrazolium compound by itself showed little herbicidal activity.

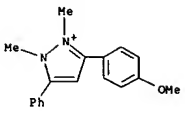
IT 43222-51-1P 43222-52-2P 43222-70-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and herbicidal activity of)

RN 43222-51-1 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 49867-84-7
CMF C18 H19 N2 O

L13 ANSWER 59 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2

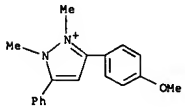
CRN 21228-90-0
CMF C H3 O4 S

Me-O-SO3-

RN 43222-52-2 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

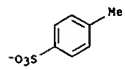
CM 1

CRN 49867-84-7
CMF C18 H19 N2 O



CM 2

CRN 16722-51-3
CMF C7 H7 O3 S

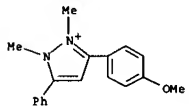


RN 43222-70-4 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, perchlorate (9CI) (CA INDEX NAME)

L13 ANSWER 59 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CM 1

CRN 49867-84-7
CMF C18 H19 N2 O



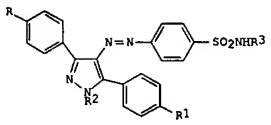
CM 2

CRN 14797-73-0
CMF Cl O4

Karen Cheng

10526940elected

L13 ANSWER 60 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:592619 CAPLUS
DOCUMENT NUMBER: 85:192619
TITLE: Studies in heterocyclic compounds. Part X. Synthesis and antibacterial study of some new 3,5-diaryl-4-(substituted sulfonamidobenzeneazo)pyrazoles
AUTHOR(S): Kabra, Ajaya; Saharia, G. S.; Sharma, H. R.
CORPORATE SOURCE: Dep. Chem., Univ. Delhi, Delhi, India
SOURCE: Journal of the Indian Chemical Society (1976), 53(4), 371-4
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



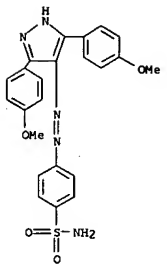
I

AB The pyrazoles I (R = R1 = MeO, R = EtO, R1 = H; R2 = H, Ph, p-O2NC6H4, PhCO; R3 = H, MeCO, o-MeOC6H4, 2-pyridyl, etc.) were prepared (68-81%) by cyclization of p-RC6H4COCH(COC6H4R1-p)N:NC6H4SO2NHR3 with R2NHNH2. I were bactericides against Staphylococcus aureus and Escherichia coli.

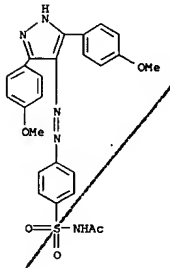
IT 60928-43-0P 60928-44-1P 60928-45-2P
60928-46-3P 60928-47-4P 60928-48-5P
60928-49-6P 60928-50-9P 60928-51-0P
60932-16-3P 60932-17-4P 60932-18-5P
60932-19-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal activity of)

RN 60928-43-0 CAPLUS
CN Benzenesulfonamide, 4-[[3,5-bis(4-methoxyphenyl)-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

L13 ANSWER 60 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

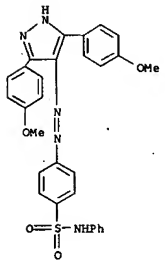


RN 60928-44-1 CAPLUS
CN Acetamide, N-[[4-[[3,5-bis(4-methoxyphenyl)-1H-pyrazol-4-yl]azo]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)



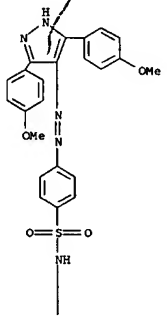
RN 60928-45-2 CAPLUS
CN Benzenesulfonamide, 4-[[3,5-bis(4-methoxyphenyl)-1H-pyrazol-4-yl]azo]-N-phenyl- (9CI) (CA INDEX NAME)

L13 ANSWER 60 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 60928-46-3 CAPLUS
CN Benzenesulfonamide, 4-[[3,5-bis(4-methoxyphenyl)-1H-pyrazol-4-yl]azo]-N-(2-methylphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A

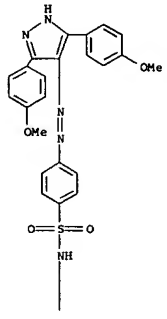


L13 ANSWER 60 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

RN 60928-47-4 CAPLUS
CN Benzenesulfonamide, 4-[[3,5-bis(4-methoxyphenyl)-1H-pyrazol-4-yl]azo]-N-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



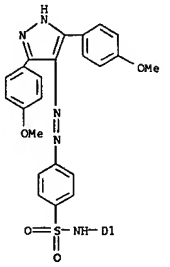
PAGE 2-A

RN 60928-48-5 CAPLUS
CN Benzenesulfonamide, 4-[[3,5-bis(4-methoxyphenyl)-1H-pyrazol-4-yl]azo]-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

Karen Cheng

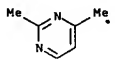
L13 ANSWER 60 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A



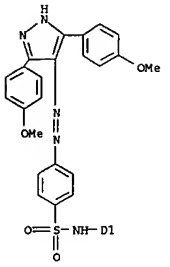
RN 60932-18-5 CAPLUS
CN Benzenesulfonamide, 4-[[3,5-bis(4-methoxyphenyl)-1H-pyrazol-4-yl]azo]-N-(2,4-dimethylpyrimidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



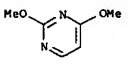
L13 ANSWER 60 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A



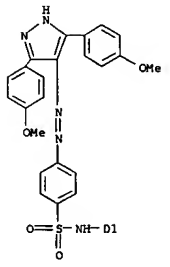
RN 60932-19-6 CAPLUS
CN Benzenesulfonamide, 4-[[3,5-bis(4-methoxyphenyl)-1H-pyrazol-4-yl]azo]-N-(2,4-dimethoxypyrimidinyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



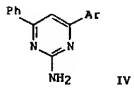
L13 ANSWER 60 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A



L13 ANSWER 61 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:577006 CAPLUS
DOCUMENT NUMBER: 85:177006
TITLE: Acetylenic ketones. Part III. Reaction of acetylenic ketones with nucleophilic sulfur compounds
AUTHOR(S): Baddar, F. G.; Al-Hajjar, F. H.; El-Rayyes, N. R.
CORPORATE SOURCE: Dep. Chem., Kuwait Univ., Kuwait, Kuwait
SOURCE: Journal of Heterocyclic Chemistry (1976), 13(4), 691-700
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 85:177006
GI

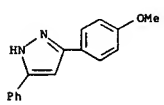


IV

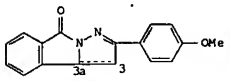
AB Aroylphenylacetylenes reacted with ammonium dithiocarbamate and NH4HS in 60% aqueous dioxane at 15° to give mainly a mixture of PhCSCH:CArOH(I) and (E,Z)-β,β'-bis(α-aroylstyryl) sulfides(II), whereas with sodium xanthate and Na2S they gave only I. However, when PHCOC.tplbond.CPh or 4-ClC6H4COC.tplbond.CPh, was refluxed with ammonium dithiocarbamate in EtOH, a mixture of I and the (E,E)-β,β'-bis-(α-aroylstyryl) sulfide (III) was obtained. I, II, and III reacted with N2H4.H2O and PhNHNH2 to give 3(5)-aryl-5(3)-phenyl- and 5-aryl-1,3-diphenylpyrazoles, resp. I reacted with guanidine and ethyl hydrazinecarboxylate to give the corresponding aminopyrimidines IV and PhC(:NNHCO2Et)CH2COAr, resp.

IT 32664-28-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

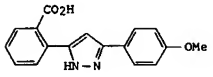
RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 62 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:538434 CAPLUS
DOCUMENT NUMBER: 85:138434
TITLE: A new class of synthetic auxin transport inhibitors
AUTHOR(S): Beyer, Elmo M., Jr.; Johnson, Alex L.; Sweetser, Philip B.
CORPORATE SOURCE: Cent. Res. Dev. Dep., E. I. du Pont de Nemours and Co., Wilmington, DE, USA
SOURCE: Plant Physiology (1976), 57(6), 839-41
CODEN: PLPHAY; ISSN: 0032-0889
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



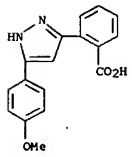
I, 3,3a-satd.
II, 3,3a-unsatd.



III

AB Auxin transport inhibition by a new class of synthetic plant growth regulants, the 2-(3-aryl-5-pyrazolyl)benzoic acids, was examined in bean (Phaseolus vulgaris) using the donor-receiver agar cylinder technique. These compds. can be prepared by the dehydrogenation and ring cleavage of compds. like DPX-1840 (I) [21138-13-6], which was previously reported (Beyer, E. M. Jr. 1972) to be a potent inhibitor of auxin transport. These new growth regulators inhibited auxin transport more than I did as evidenced by their consistently greater decrease of basipetal auxin transport capacity in bean when incorporated into the receiver agar cylinder or applied foliarly to intact plants. Direct comparisons of the effect of I, its dehydrogenation product 2-(4-methoxyphenyl)-8H-pyrazolo[5,1a]isoindol-8-one (II) [37564-17-3], and its open-ring form, 2-(3-(4-methoxyphenyl)-5-pyrazolyl)benzoic acid (III) [39785-09-6] on auxin transport indicated the following order of activity: III >II>I. I-14C applied at 0.5 mg/l. to etiolated bean hypocotyl hooks followed by extraction and thin layer chromatog., indicated the biol. conversion of I to its open-ring form. The biol. active forms of I-type compds. are the open-ring 2-(3-aryl-5-pyrazolyl)benzoic acids.
IT 39785-09-6
RL: BIOL (Biological study)
(auxin transport inhibition by)
RN 39785-09-6 CAPLUS
CN Benzoic acid, 2-[5-(4-methoxyphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

L13 ANSWER 62 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L13 ANSWER 63 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:433005 CAPLUS
DOCUMENT NUMBER: 85:33005
TITLE: Pyrazole plant growth regulants
INVENTOR(S): Johnson, Alexander Lawrence; Sweetser, Philip B.
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co., USA
SOURCE: U.S., 15 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

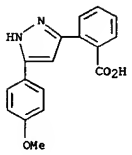
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3948937	A	19760406	US 1973-397720	19730917
IL 39092	A	19760229	IL 1972-39092	19720327
IT 955155	B	19730929	IT 1972-22831	19720407
AU 7241026	A	19731018	AU 1972-41026	19720412
ZA 7202576	A	19730131	ZA 1972-2576	19720417
ES 401879	A1	19760201	ES 1972-401879	19720418
CA 982588	A1	19760127	CA 1972-140051	19720419
BR 7202417	D0	19730503	BR 1972-2417	19720420
NL 7205441	A	19721024	NL 1972-5441	19720421
FR 2136595	A5	19721222	FR 1972-14198	19720421
JP 58011401	B	19830302	JP 1972-39729	19720421
US 4055409	A	19771025	US 1975-627462	19751030
PRIORITY APPLN. INFO.:			US 1971-136576	A2 19710422
			US 1972-230508	A2 19720229
			US 1973-397720	A3 19730917

GI

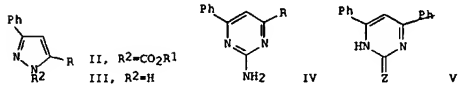
I

AB Pyrazoles (I, R = 2-HO2CC6H4, substituted 2-carboxyphenyl; R1 = Ph, substituted phenyl) (35 compds.) were prepared Thus, 100 g di-Na salt of 2-benzoylacetylbenzoic acid in MeOH-HCl was cyclized with 11 g NH2NH2 to give 59 g of I (R = 2-HO2CC6H4, R1 = Ph). I at low rates, 0.001 - 4 lb/acre, are plant growth regulators and at higher rates, 0.5-10 lb/acre, exhibit herbicidal activity.
IT 39785-09-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 39785-09-6 CAPLUS
CN Benzoic acid, 2-[5-(4-methoxyphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

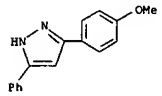
L13 ANSWER 63 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



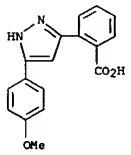
L13 ANSWER 64 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:432950 CAPLUS
DOCUMENT NUMBER: 85:32950
TITLE: Acetylinic ketones. Part II. Reaction of acetylenic ketones with nucleophilic nitrogen compounds
AUTHOR(S): Baddar, F. G.; Al-Hajjar, F. H.; El-Rayyes, N. R.
CORPORATE SOURCE: Dep. Chem., Kuwait Univ., Kuwait, Kuwait
SOURCE: Journal of Heterocyclic Chemistry (1976), 13(2), 257-68
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 85:32950
GI



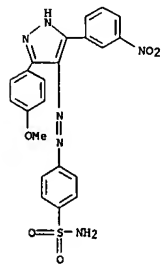
AB PhC.tplbond.CCOR [I, R = Ph, C6H4Me-p, C6H4Cl-m, p, C6H4OMe-p, 3,4-(methylenedioxy)phenyl] reacted with H2NNHCO2R1 (R1 = Ph, Et) to give RCOCH:CPhNHNHCO2R1, which were cyclized with Ac2O to give the pyrazolecarboxylates II, which on hydrolysis-decarboxylation with MeOH-NaOH gave the aromatic pyrazoles III; I also reacted with NH2C(:NH)NH2 to give the pyrimidines IV; similarly, the pyrimidines V (Z = S, O) were prepared from heating PhC.tplbond.CCOPh with H2NC(:Z)NH2.
IT 32664-28-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 65 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:131323 CAPLUS
DOCUMENT NUMBER: 84:131323
TITLE: Effect of substituted pyrazoles and related compounds on geotropism in cress seedlings
AUTHOR(S): Geissler, Art E.; Huppatz, John L.; Katekar, Gerard F.
CORPORATE SOURCE: Div. Plant Ind., CSIRO, Canberra, Australia
SOURCE: Pesticide Science (1975), 6(5), 441-50
CODEN: PSSCBG; ISSN: 0031-613X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB 2-Phenyl-8H-pyrazolo[5,1-a]isoindol-8-one (I) [37564-20-8], 5-(2-carboxyphenyl)-3-phenylpyrazole [39784-88-8], and derivs. of both these compds. were highly active against root geotropism in cress seedling, destruction of geotropism occurring at 10-7-10-9M. Substitution with functional groups and increased mol. size caused only minor variations in activity.
IT 39785-09-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and geotropic activity of)
RN 39785-09-6 CAPLUS
CN Benzoic acid, 2-[5-(4-methoxyphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)

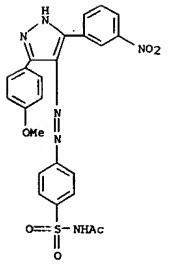


L13 ANSWER 66 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:121712 CAPLUS
DOCUMENT NUMBER: 84:121712
TITLE: Heterocyclic compounds. III. Synthesis of 3,5-diaryl-4-(substituted sulfonamidobenzeneazo)pyrazoles and study of their antibacterial properties
AUTHOR(S): Saharia, G. S.; Sharma, H. R.
CORPORATE SOURCE: Dep. Chem., Univ. Delhi, Delhi, India
SOURCE: Journal of the Indian Chemical Society (1975), 52(10), 960-1
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 84:121712
AB 1-(M-Nitrophenyl)-3-phenyl-, and 1-(m-nitrophenyl)-3-(p-anisyl)-2-(substituted sulfonamidophenylazo)propane-1,3-diones on condensation with H2NNH2.H2O, PhNHNH2, and p-MeC6H4NHNH2 gave and the respective 3-(m-nitrophenyl)-5-phenyl-, and 3-(m-nitrophenyl)-5-(anisyl)-4-substituted sulfonamidophenylazo) pyrazoles e.g. I. All the pyrazoles were active when screened in vitro against Staphylococcus aureus and Escherichia coli.
IT 58924-93-9P 58924-97-3P 58925-01-2P
58925-02-3P 58925-04-5P 58925-08-9P
58925-11-4P 58925-13-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal activity of)
RN 58924-93-9 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-(3-nitrophenyl)-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

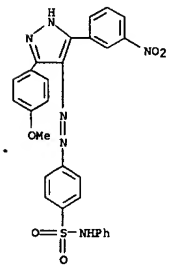


RN 58924-97-3 CAPLUS
CN Acetamide, N-[[4-[[3-(4-methoxyphenyl)-5-(3-nitrophenyl)-1H-pyrazol-4-yl]azo]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 66 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 58925-01-2 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-(3-nitrophenyl)-1H-pyrazol-4-yl]azo]-N-phenyl- (9CI) (CA INDEX NAME)



RN 58925-02-3 CAPLUS
CN Benzenesulfonamide, N-(4-chlorophenyl)-4-[[3-(4-methoxyphenyl)-5-(3-nitrophenyl)-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

L13 ANSWER 67 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:116915 CAPLUS
DOCUMENT NUMBER: 84:116915
TITLE: Pyrazolium fungicides
INVENTOR(S): Walworth, Bryant L.
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

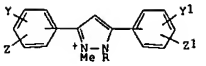
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3930011	A	19751230	US 1975-546654	19750203
ZA 7507951	A	19761229	ZA 1975-7951	19751222
IL 48708	A	19780731	IL 1975-48708	19751223
AU 7587903	A	19770630	AU 1975-87903	19751224
AU 500653	B2	19790531		
GB 1534866	A	19781206	GB 1975-53214	19751230
CA 1058517	A1	19790717	CA 1976-243287	19760109
NL 7600700	A	19760805	NL 1976-700	19760123
DK 7600296	A	19760804	DK 1976-296	19760126
DK 139833	C	19791001		
DK 139833	B	19790430		
FI 7600174	A	19760804	FI 1976-174	19760126
FI 59194	B	19810331		
FI 59194	C	19810710		
DE 2602964	A1	19760805	DE 1976-2602964	19760127
CS 199651	B2	19800731	CS 1976-580	19760129
BE 838171	A4	19760802	BE 1976-164007	19760202
SE 7601095	A	19760803	SE 1976-1095	19760202
SE 420888	B	19811109		
SE 420888	C	19820218		
NO 7600343	A	19760804	NO 1976-343	19760202
NO 145039	B	19810921		
NO 145039	C	19820104		
BR 7600646	A	19760831	BR 1976-646	19760202
CH 594354	A5	19780113	CH 1976-1243	19760202
AT 347178	B	19781211	AT 1976-697	19760202
SU 644359	A3	19790125	SU 1976-2319208	19760202
FR 2298949	A2	19760827	FR 1976-2975	19760203
FR 2298949	B2	19790330		
JP 51104031	A	19760914	JP 1976-10777	19760203
DD 124703	A6	19770309	DD 1976-191070	19760203

PRIORITY APPLN. INFO.:

US 1971-209448	A	19711217
US 1972-271424	A	19720713
GB 1972-55680	A	19721201
US 1975-546654	A	19750203

GI

L13 ANSWER 67 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



I

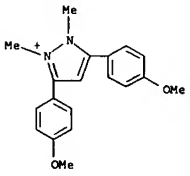
AB Dialkyldiphenylpyrazolium salts I (R=alkyl, allyl, propynyl, ethylcarboxymethyl, Ph, or PhCH2; Y,Y',Z, and Z'=H, halogen, Cl-4 alkyl or alkoxy; X=mono- or divalent anion; m = 1 or 2) were effective as fungicides. For example, 1,2-dimethyl-3,5-diphenylpyrazolium methyl sulfate [43222-48-6] was effective for control of Phytophthora infestans on tomato, Piricularia oryzae on rice, and Venturia inaequalis on apple. The synthesis of I is described.

IT 43222-61-3P 43222-81-7P 43222-82-8P
58538-38-8P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and fungicidal activity of)

RN 43222-61-3 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 49868-24-8
CMF C19 H21 N2 O2



CM 2

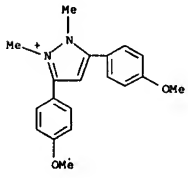
CRN 14797-73-0
CMF Cl O4

L13 ANSWER 67 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 43222-81-7 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

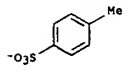
CM 1

CRN 49868-24-8
CMF C19 H21 N2 O2



CM 2

CRN 16722-51-3
CMF C7 H7 O3 S

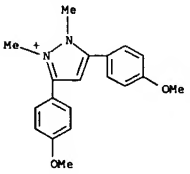


RN 43222-82-8 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

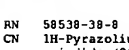
CRN 49868-24-8
CMF C19 H21 N2 O2

L13 ANSWER 67 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

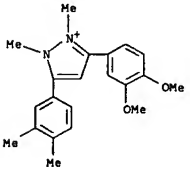


CM 2

CRN 21228-90-0
CMF C H3 O4 S



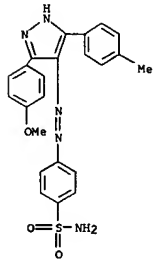
RN 58538-38-8 CAPLUS
CN 1H-Pyrazolium, 3-(3,4-dimethoxyphenyl)-5-(3,4-dimethylphenyl)-1,2-dimethyl-, iodide (9CI) (CA INDEX NAME)



● I⁻

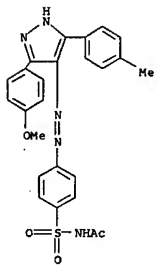
L13 ANSWER 68 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:105469 CAPLUS
DOCUMENT NUMBER: 84:105469
TITLE: Studies in heterocyclic compounds. Part VI. Synthesis and antibacterial activity of some 3,5-diaryl-4-(N-substituted p-sulfamoylphenylazo)pyrazoles
AUTHOR(S): Saharia, G. S.; Sharma, H. R.
CORPORATE SOURCE: Dep. Chem., Univ. Delhi, Delhi, India
SOURCE: Indian Journal of Pharmacy (1975), 37(6), 147-50
CODEN: IJPAAO; ISSN: 0019-5472
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Sixty-two pyrazoles I (R = H, Ac, Ph, substituted phenyl, pyrimidyl, etc.; R1 = H, OMe; R2 = H, Ph, p-MeC6H4, p-O2NC6H4), nearly all of which showed antibacterial activity against Escherichia coli and none of them against Staphylococcus aureus were prepared by reaction of p-MeC6H4COCH(N:NC6H4SO2NHR-p)COC6H4R1-p with R2NHNH2 in AcOH or AcOH-EtOH at reflux. I (R1 = OMe) were more active than I (R1 = H).
IT 58524-22-4P 58524-23-5P 58524-24-6P
58524-25-7P 58524-26-8P 58524-27-9P
58524-28-0P 58524-29-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antibacterial activity of)
RN 58524-22-4 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-(4-methylphenyl)-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

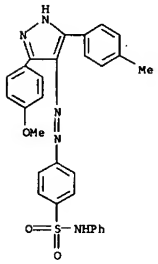


RN 58524-23-5 CAPLUS
CN Acetamide, N-[[4-[[3-(4-methoxyphenyl)-5-(4-methylphenyl)-1H-pyrazol-4-yl]azo]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 68 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



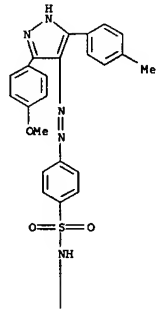
RN 58524-24-6 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-(4-methylphenyl)-1H-pyrazol-4-yl]azo]-N-phenyl- (9CI) (CA INDEX NAME)



RN 58524-25-7 CAPLUS
CN Benzenesulfonamide, N-(4-chlorophenyl)-4-[[3-(4-methoxyphenyl)-5-(4-methylphenyl)-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

L13 ANSWER 68 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

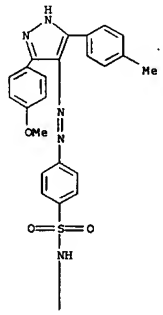


PAGE 2-A

RN 58524-26-8 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-(4-methylphenyl)-1H-pyrazol-4-yl]azo]-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 68 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

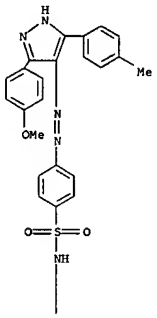


PAGE 2-A

RN 58524-27-9 CAPLUS
CN Benzenesulfonamide, N-(4-methoxyphenyl)-4-[[3-(4-methoxyphenyl)-5-(4-methylphenyl)-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

L13 ANSWER 68 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

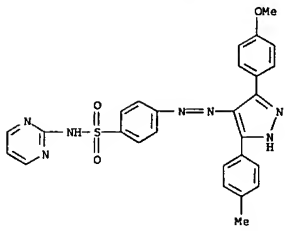
PAGE 1-A



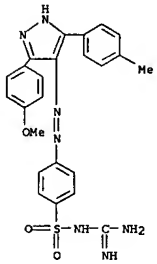
PAGE 2-A

RN 58524-28-0 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-(4-methylphenyl)-1H-pyrazol-4-yl]azo]-N-2-pyrimidinyl- (9CI) (CA INDEX NAME)

L13 ANSWER 68 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 58524-29-1 CAPLUS
CN Benzenesulfonamide, N-(aminoiminomethyl)-4-[[3-(4-methoxyphenyl)-5-(4-methylphenyl)-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)



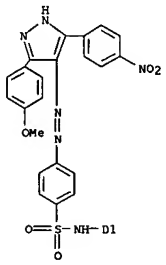
L13 ANSWER 69 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:105466 CAPLUS
DOCUMENT NUMBER: 84:105466
TITLE: Heterocyclic compounds. V. 3,5-Diaryl-4-(substituted sulfamolylphenylazo)pyrazoles and their antibacterial properties
AUTHOR(S): Kabra, Ajaya; Saharia, G. S.; Sharma, H. R.
CORPORATE SOURCE: Dep. Chem., Univ. Delhi, Delhi, India
SOURCE: Journal of the Indian Chemical Society (1975), 52(10), 989-92
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB One hundred (sulfamoylphenylazo) pyrazoles (I, R = H, Ph, p-O2NC6H4, Bz; R1 = H, Ac, Ph, 2-pyridyl, 5-methyl-1,3,4-thiadiazol-2-yl, etc.; R2 = H, OMe) were prepared by condensing the (sulfamoylphenylazo) pyrazoles II with the appropriate hydrazine. Most I have antibacterial activities against Staphylloccus aureus and Escherichia coli.
IT 58759-91-4P 58759-92-5P 58759-93-6P
58771-55-4P 58771-56-5P 58771-57-6P
58771-58-7P 58771-60-1P 58771-61-2P
58771-62-3P 58771-63-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antibacterial activity of)
RN 58759-91-4 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-(4-nitrophenyl)-1H-pyrazol-4-yl]azo]-N-pyrimidinyl- (9CI) (CA INDEX NAME)

PAGE 1-A

L13 ANSWER 69 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

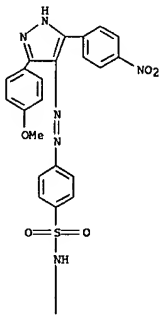


RN 58759-92-5 CAPLUS
CN Benzenesulfonamide, N-[4,6-dimethyl-2(or 5)-pyrimidinyl]-4-[[3-(4-methoxyphenyl)-5-(4-nitrophenyl)-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

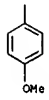
PAGE 1-A

L13 ANSWER 69 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

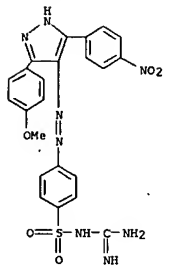


PAGE 2-A



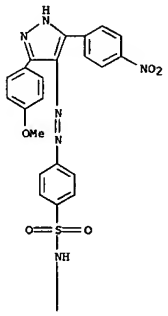
RN 58771-61-2 CAPLUS
CN Benzenesulfonamide, N-(aminoiminomethyl)-4-[[3-(4-methoxyphenyl)-5-(4-nitrophenyl)-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

L13 ANSWER 69 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 58771-62-3 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-(4-nitrophenyl)-1H-pyrazol-4-yl]azo]-N-2-pyridinyl- (9CI) (CA INDEX NAME)

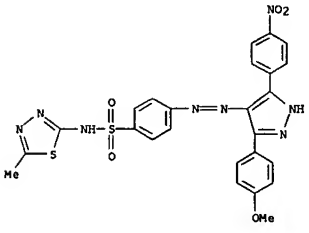
PAGE 1-A



L13 ANSWER 69 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

RN 58771-63-4 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-(4-nitrophenyl)-1H-pyrazol-4-yl]azo]-N-(5-methyl-1,3,4-thiadiazol-2-yl)- (9CI) (CA INDEX NAME)



L13 ANSWER 70 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1976:85629 CAPLUS
DOCUMENT NUMBER: 84:85629
TITLE: Herbicidal compositions containing 1,2-dialkyl-3,5-diphenyl pyrazolium salts
INVENTOR(S): Walworth, Bryant L.; Klingsberg, Erwin
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: U.S., 24 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3922161	A	19751125	US 1974-458367	19740405
US 3882142	A	19750506	US 1972-307672	19721117
ZA 7208412	A	19730725	ZA 1972-8412	19721127
HU 165479	B	19740928	HU 1972-AE371	19721202
FR 2163473	A1	19730727	FR 1972-43254	19721205
AU 7249655	A	19740606	AU 1972-49655	19721205
SU 799628	A3	19810123	SU 1972-1865108	19721215
GB 1535053	A	19781206	GB 1975-48277	19751124
CA 1012788	A2	19770628	CA 1976-246759	19760227
PRIORITY APPLN. INFO.:			US 1971-209448 A2	19711217
			US 1972-271424 A2	19720713
			US 1972-307672 A3	19721117
			GB 1972-55680 A	19721201
			CA 1972-158079 A3	19721205
			US 1974-487826 A	19740712
			US 1975-541900 A	19750117
			GB 1975-26396 A	19750620
			US 1975-598527 A	19750723

GI For diagram(s), see printed CA Issue.
AB 1,2-Dialkyl-3,5-diphenylpyrazolium salts I (R1 and R2 = C1-4 alkyl; Y, Y', Z, and Z' = H, halogen, nitro, C1-4 alkyl, haloalkyl, and alkoxy; X = anion with a charge of 1-3; and m is an integer 1-3). E.g. 1,2-dimethyl-3,5-diphenylpyrazolium p-toluene sulfonate [43222-46-4] is effective as a herbicide. Examples are cited to illustrate the preparation, herbicidal activity, and phytotoxicity of I.
IT 43222-70-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and herbicidal activity of)
RN 43222-70-4 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 49867-84-7
CMF C18 H19 N2 O

L13 ANSWER 70 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:85629 CAPLUS
DOCUMENT NUMBER: 84:85629
TITLE: Herbicidal compositions containing 1,2-dialkyl-3,5-diphenyl pyrazolium salts
INVENTOR(S): Walworth, Bryant L.; Klingsberg, Erwin
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: U.S., 24 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

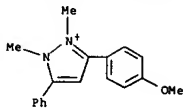
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3922161	A	19751125	US 1974-458367	19740405
US 3882142	A	19750506	US 1972-307672	19721117
ZA 7208412	A	19730725	ZA 1972-8412	19721127
HU 165479	B	19740928	HU 1972-AE371	19721202
FR 2163473	A1	19730727	FR 1972-43254	19721205
AU 7249655	A	19740606	AU 1972-49655	19721205
SU 799628	A3	19810123	SU 1972-1865108	19721215
GB 1535053	A	19781206	GB 1975-48277	19751124
CA 1012788	A2	19770628	CA 1976-246759	19760227
PRIORITY APPLN. INFO.:			US 1971-209448	A2 19711217
			US 1972-271424	A2 19720713
			US 1972-307672	A3 19721117
			GB 1972-55680	A 19721201
			CA 1972-158079	A3 19721205
			US 1974-487826	A 19740712
			US 1975-541900	A 19750117
			GB 1975-26396	A 19750620
			US 1975-598527	A 19750723

GI For diagram(s), see printed CA Issue.
AB 1,2-Dialkyl-3,5-diphenylpyrazolium salts I (R1 and R2 = C1-4 alkyl; Y, Y', Z, and Z' = H, halogen, nitro, C1-4 alkyl, haloalkyl, and alkoxy; X = anion with a charge of 1-3; and m is an integer 1-3). E.g. 1,2-dimethyl-3,5-diphenylpyrazolium p-toluene sulfonate [43222-46-4] is effective as a herbicide. Examples are cited to illustrate the preparation, herbicidal activity, and phytotoxicity of I.
IT 43222-70-4P
RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and herbicidal activity of)
RN 43222-70-4 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 49867-84-7
CMF C18 H19 N2 O

L13 ANSWER 70 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



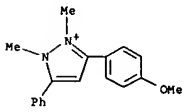
CM 2

CRN 14797-73-0
CMF Cl O4

IT 43222-51-1 43222-52-2 43222-61-3
43222-81-7 43222-82-8
RL: BIOL (Biological study)
(preparation as herbicide)
RN 43222-51-1 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

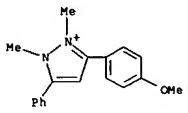
CRN 49867-84-7
CMF C18 H19 N2 O



CM 2

CRN 21228-90-0
CMF C H3 O4 S

L13 ANSWER 70 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



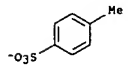
RN 43222-52-2 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 49867-84-7
CMF C18 H19 N2 O

CM 2

CRN 16722-51-3
CMF C7 H7 O3 S

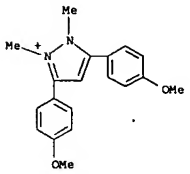


RN 43222-61-3 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 49868-24-8
CMF C19 H21 N2 O2

L13 ANSWER 70 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



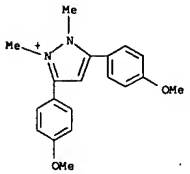
CM 2

CRN 14797-73-0
CMF Cl O4

RN 43222-81-7 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

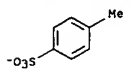
CRN 49868-24-8
CMF C19 H21 N2 O2



CM 2

CRN 16722-51-3
CMF C7 H7 O3 S

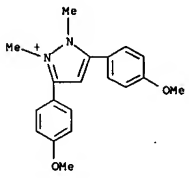
L13 ANSWER 70 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 43222-82-8 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

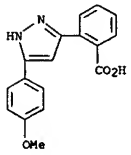
CRN 49868-24-8
CMF C19 H21 N2 O2



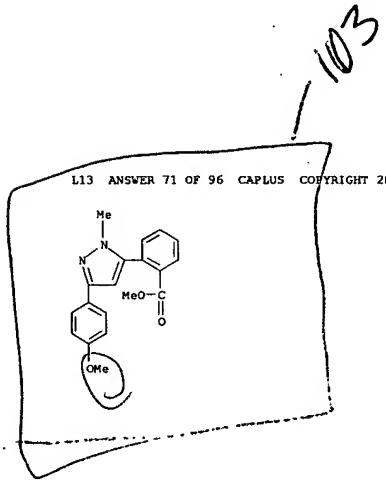
CM 2

CRN 21228-90-0
CMF C H3 O4 S

L13 ANSWER 71 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1976:43928 CAPLUS
DOCUMENT NUMBER: 84:43928
TITLE: 2-(3-Aryl-5-pyrazolyl)benzoic acid chemistry
AUTHOR(S): Johnson, Alexander L.; Sweetser, Philip B.
CORPORATE SOURCE: Exp. Stn., E. I. du Pont de Nemours and Co., Wilmington, DE, USA
SOURCE: Journal of Organic Chemistry (1976), 41(1), 110-14
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 84:43928
GI For diagram(s), see printed CA Issue.
AB The nucleophilic ring-cleavage reactions of 2-(4-methoxyphenyl)-8H-pyrazolo[5,1-a]isoindol-8-one (I) and its analogs with aqueous base, alcs., and secondary amines are convenient syntheses of 2-[3-(4-methoxyphenyl)-5-pyrazolyl]benzoic acid (II), its esters (III), and amides (IV), and their analogs. These reactions may be reversed by heat and by dehydrating agents such as SOCl2, POCl3, and Ac2O. The chemical of II is discussed.
IT 39785-09-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reactions of)
RN 39785-09-6 CAPLUS
CN Benzoic acid, 2-[5-(4-methoxyphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



IT 39785-18-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 39785-18-7 CAPLUS
CN Benzoic acid, 2-[3-(4-methoxyphenyl)-1-methyl-1H-pyrazol-5-yl]-, methyl ester (9CI) (CA INDEX NAME)



L13 ANSWER 71 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L13 ANSWER 72 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:458810 CAPLUS
DOCUMENT NUMBER: 83:58810
TITLE: 1,2-Dialkyl-3,5-diphenylpyrazolium salts
INVENTOR(S): Feeny, Richard W.
PATENT ASSIGNEE(S): American Cyanamid Co., USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 3
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3867403	A	19750218	US 1972-307670	19721117
CS 232702	B2	19850214	CS 1973-7818	19731014
CA 1049536	A1	19790227	CA 1973-184017	19731023
ZA 7308278	A	19740925	ZA 1973-8278	19731025
AU 7361908	A	19750501	AU 1973-61908	19731026
DE 2355242	A1	19740522	DE 1973-2355242	19731105
DE 2355242	C2	19850808		
IL 43559	A	19780929	IL 1973-43559	19731105
GB 1454907	A	19761110	GB 1973-51966	19731108
NL 7315588	A	19740521	NL 1973-15588	19731114
NL 183561	B	19880701		
NL 183561	C	19881201		
AT 7309574	A	19760115	AT 1973-9574	19731114
AT 332677	B	19761011		
CH 585002	A5	19770228	CH 1973-16086	19731115
DK 137665	C	19781120	DK 1973-6181	19731115
BE 807431	A1	19740516	BE 1973-137847	19731116
FR 2206907	A1	19740614	FR 1973-40995	19731116
DD 111275	A5	19750205	DD 1973-174700	19731116
PL 93753	B1	19770630	PL 1973-166588	19731116
RO 63674	A1	19790315	RO 1973-76663	19731116
NO 141184	B	19791022	NO 1973-4407	19731116
NO 141184	C	19800130		
FI 55926	C	19791112	FI 1973-3551	19731116
FI 55926	B	19790731		
SE 421103	B	19811130	SE 1973-15581	19731116
SE 421103	C	19820311		
JP 50004242	A	19750117	JP 1973-128815	19731117
JP 57047643	B	19821012		
US 4170464	A	19791009	US 1977-822504	19770808
CA 1080498	A2	19800701	CA 1978-314271	19781025
PRIORITY APPLN. INFO.:			US 1972-307670	19721117
			US 1972-307671 A	19721117
			US 1972-307689 A	19721117
			CA 1973-184017 A3	19731023
			US 1974-518020 A2	19741025

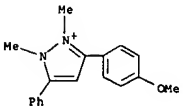
GI For diagram(s), see printed CA Issue.
AB Pyrazolium I (R, R1 = lower alkyl; R2, R3, R4, R5 = halo, lower alkyl, lower alkoxy) (33 compds.), were prepared by heating dibenzoylmethanes II with RNHNH2 and then alkylating using alkyl halides, Me2SO4, or p-Me2C6H4SO3Me. Thus, II (R2-R5 = H) in pyridine was refluxed with MeNHNH2 to give 94.5% III which was refluxed with MeC6H4SO3Me to give 69% I (R = R1 = Me, R2-R6 = H) (IV). I had herbicidal activity against wild oats and had synergistic effect when used in combination with systemic or hormonal broadleaf herbicides. Treating wild oats with 0.30 lb/acre IV

Karen Cheng

L13 ANSWER 72 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
gave 53% inhibition, while in combination with MCPA (1/4 lb/acre) gave 73% inhibition.
IT 43222-70-4P 56119-91-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 43222-70-4 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

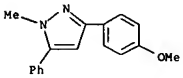
CRN 49867-84-7
CMF C18 H19 N2 O



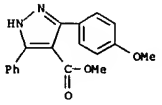
CM 2

CRN 14797-73-0
CMF Cl O4

RN 56119-91-6 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-1-methyl-5-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 73 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:443229 CAPLUS
DOCUMENT NUMBER: 83:43229
TITLE: Cycloaddition of diazo alkanes with disubstituted alkenes and alkynes
AUTHOR(S): Bastide, J.; Henri-Rousseau, O.; Aspart-Pascot, L.
CORPORATE SOURCE: Lab. Synth. Org., Cent. Univ. Perpignan, Perpignan, Fr.
SOURCE: Tetrahedron (1974), 30(18), 3355-63
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: French
GI For diagram(s), see printed CA Issue.
AB Cycloaddn. of diazo alkanes to disubtituted alkenes or alkynes gave mixts. of pyrazolines or pyrazoles resp. E.g. PhCH:CHCO2Me with MeCHN2 gave 100% I and with PhCHN2 gave 80% II and 20% III. PhC.tplbond.CCO2Me with MeCHN2 gave 40% IV and 60% V. The diazo alkene substituent affected the regioselectivity of the reaction. The results agreed with perturbational MO predictions.
IT 56445-55-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 56445-55-7 CAPLUS
CN 1H-Pyrazole-4-carboxylic acid, 3-(4-methoxyphenyl)-5-phenyl-, methyl ester (9CI) (CA INDEX NAME)



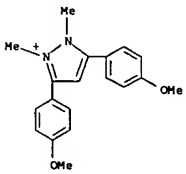
L13 ANSWER 74 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:170915 CAPLUS
DOCUMENT NUMBER: 82:170915
TITLE: Alkylation of 3,5-diphenylpyrazoles
INVENTOR(S): Garber, Murray
PATENT ASSIGNEE(S): American Cyanamid Co.
SOURCE: Ger. Offen., 25 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2425979	A1	19750109	DE 1974-2425979	19740530
DE 2425979	C2	19850725		
US 3907824	A	19750923	US 1973-371202	19730618
GB 1472290	A	19770504	GB 1974-22961	19740522
AU 7469411	A	19751127	AU 1974-69411	19740527
NL 7407734	A	19741220	NL 1974-7734	19740610
NL 185564	B	19891218		
NL 185564	C	19900516		
DK 7403113	A	19750210	DK 1974-3113	19740611
DK 135768	B	19770620		
AT 7404952	A	19760615	AT 1974-4952	19740614
AT 334890	B	19770210		
IT 1013470	B	19770330	IT 1974-51523	19740614
SE 7407983	A	19741219	SE 1974-7983	19740617
SE 413404	B	19800527		
SE 413404	C	19800911		
BR 7404930	D0	19750121	BR 1974-4930	19740617
DD 111376	A5	19750205	DD 1974-179221	19740617
HU 169475	B	19761228	HU 1974-AE416	19740617
CH 602661	A5	19780731	CH 1974-8268	19740617
SU 645566	A3	19790130	SU 1974-2038201	19740617
BE 816530	A1	19741218	BE 1974-145595	19740618
FR 2233323	A1	19750110	FR 1974-21166	19740618
FR 2233323	B1	19780331		
JP 50036459	A	19750405	JP 1974-68787	19740618
JP 59024145	B	19840607		
ES 427379	A1	19760916	ES 1974-427379	19740618
CS 181267	B2	19780331	CS 1974-4283	19740618

PRIORITY APPLN. INFO.: US 1973-371202 A 19730618
GI For diagram(s), see printed CA Issue.
AB 1-Methyl-3,5-diphenylpyrazole was obtained by methylating 3,5-diphenylpyrazole with Me2SO4 in MeCOCH2CHMe2-Na2CO3. Quaternization gave the herbicidal salt I (R-R3 = H, X = MeSO4). I (R = H, 3-Cl, 4-Cl, 4-OMe, 4-Me; R1 = H, 4-Cl, 5-Cl; R2 = H, 4-Cl, 4-Me, 3-Me, 3-Cl, 2-Cl, 2-Me, 4-OMe; R3 = H, 5-Cl; X = p-MeC6H4SO3, MeSO4, EtSO4, HSO4) were similarly prepared
IT 43222-81-7P 43222-82-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 43222-81-7 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

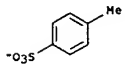
CM 1

L13 ANSWER 74 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CRN 49868-24-8
CMF C19 H21 N2 O2



CM 2

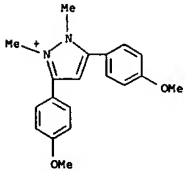
CRN 16722-51-3
CMF C7 H7 O3 S



RN 43222-82-8 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 49868-24-8
CMF C19 H21 N2 O2



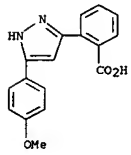
CM 2

L13 ANSWER 74 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CRN 21228-90-0
CMF C H3 O4 S

L13 ANSWER 75 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:72989 CAPLUS
DOCUMENT NUMBER: 82:72989
TITLE: Cyclization of 2-(3-aryl-5-pyrazolyl) benzoic acids, esters and amides to 2-arylpyrazolo[5,1-a]isoindol-8-ones
INVENTOR(S): Johnson, Alexander Lawrence
PATENT ASSIGNEE(S): du Pont de Nemours, E. I., and Co.
SOURCE: U.S., 4 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

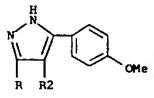
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3849436	A	19741119	US 1972-294897	19721004
PRIORITY APPLN. INFO.:			US 1972-294897 A	19721004

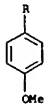
GI For diagram(s), see printed CA Issue.
AB The pyrazoloisoindolones I (R = o-MeOC6H4, Ph, 2-thienyl), II, III, and IV were prepared by cyclization 2-(3-phenyl-5-pyrazolyl)benzoic acids or 3-(2-carboxyphenyl)benz[g]indazoles with SOCl2, POCl3, Ac2O, or heat. Thus, 2-[3-(4-methoxyphenyl)-5-pyrazolyl]benzoic acid was treated with SOCl2 at 25° to give 90% I (R = o-MeOC6H4).
IT 39785-09-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(ring closure of)
RN 39785-09-6 CAPLUS
CN Benzoic acid, 2-[5-(4-methoxyphenyl)-1H-pyrazol-3-yl]- (9CI) (CA INDEX NAME)



L13 ANSWER 76 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1975:43244 CAPLUS
DOCUMENT NUMBER: 82:43244
TITLE: Phototropic products from the reactions of aril monoazines with bases
AUTHOR(S): Yates, Peter; Levi, E. M.; Shapiro, B. L.
CORPORATE SOURCE: Dep. Chem., Univ. Toronto, Toronto, ON, Can.
SOURCE: Canadian Journal of Chemistry (1974), 52(19), 3343-52
CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Treatment of benzil monoazine with NaOMe gave 5-methoxyl-1,2,5-triphenyl-3,4-diaza-2,4-pentadien-1-one, 5-benzoyl-4,5-dihydro-3,4,5-triphenylpyrazol-4-ol (I), and cleavage products. I was hydrolyzed to 3,4,5-triphenylpyrazole and BzOH, and is phototropic, being reversibly converted by sunlight to red product, which is readily autoxidized to benzil monoazine. Analogous phototropic products were formed on reaction of p-anisil monoazine and p-tolil monoazine with NaOMe. Reduction of the azines to the phototropic products may occur by cleavage to α-keto imine anions followed by dimerization; such a pathway can also account for the cleavage products. Alternatively, reduction may proceed by hydride or electron transfer; however treatment of p-tolil monoazine with KOCMe3 also gave the corresponding phototropic product. It is proposed that the phototropic transformations involve intramol. H abstraction to give enolic isomers of I and its analogs in which the heterocyclic ring has been cleaved.
IT 36141-02-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 36141-02-3 CAPLUS
CN 1H-Pyrazole, 3,4,5-tris(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

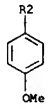
PAGE 1-A





L13 ANSWER 76 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

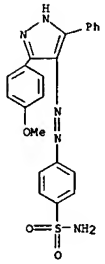
PAGE 2-A



L13 ANSWER 77 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

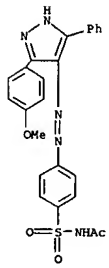
ACCESSION NUMBER: 1974:520533 CAPLUS
DOCUMENT NUMBER: 81:120533
TITLE: Heterocyclic compounds. I. Synthesis of 3-(p-methoxyphenyl)-5-phenyl-4-(substituted sulfonamidobenzeneazo)pyrazoles, and evaluation of their antibacterial properties
AUTHOR(S): Saharia, G. S.; Sharma, H. R.
CORPORATE SOURCE: Dep. Chem., Univ. Delhi, Delhi, India
SOURCE: Journal of the Indian Chemical Society (1974), 51(2), 351-3
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB The title pyrazoles (I; R = H, Ph, p-tolyl, p-O2NC6H4; R1 = H, Ac, Ph, p-ClC6H4, p-MeOC6H4, 2-pyrimidinyl, guanidino, 4,6-dimethyl-2-pyrimidinyl) were prepared (49-74%) by condensation of RNHNH2 with p-MeOC6H4COCH(COPh)N:NC6H4SO2NHR1-p. I at 500 μg/ml. were effective bactericides against E. coli but were inactive against S. aureus.
IT 53283-87-7P 53283-88-8P 53283-89-9P
53283-90-2P 53283-91-3P 53283-92-4P
53283-93-5P 53283-94-6P 53283-95-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and bactericidal activity of)

RN 53283-87-7 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

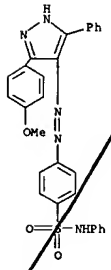


RN 53283-88-8 CAPLUS
CN Acetamide, N-[[4-[[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]azo]phenyl]sulfonyl]- (9CI) (CA INDEX NAME)

L13 ANSWER 77 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



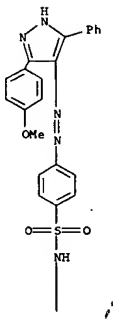
RN 53283-89-9 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]azo]-N-phenyl- (9CI) (CA INDEX NAME)



RN 53283-90-2 CAPLUS
CN Benzenesulfonamide, N-(4-chlorophenyl)-4-[[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

L13 ANSWER 77 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

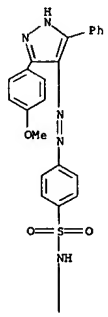


PAGE 2-A

RN 53283-91-3 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]azo]-N-(4-methylphenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 77 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

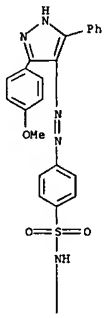


PAGE 2-A

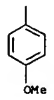
RN 53283-92-4 CAPLUS
CN Benzenesulfonamide, N-(4-methoxyphenyl)-4-[[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

L13 ANSWER 77 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

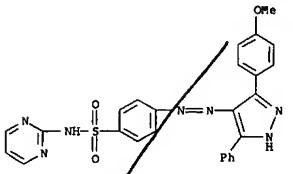


PAGE 2-A

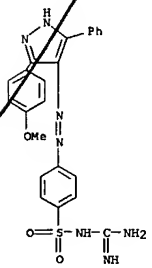


RN 53283-93-5 CAPLUS
CN Benzenesulfonamide, 4-[[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]azo]-N-2-pyrimidinyl- (9CI) (CA INDEX NAME)

L13 ANSWER 77 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

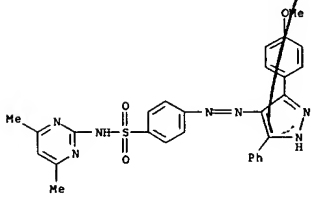


RN 53283-94-6 CAPLUS
CN Benzenesulfonamide, N-(aminoiminomethyl)-4-[[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)



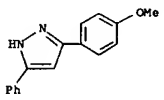
RN 53283-95-7 CAPLUS
CN Benzenesulfonamide, N-(4,6-dimethyl-2-pyrimidinyl)-4-[[3-(4-methoxyphenyl)-5-phenyl-1H-pyrazol-4-yl]azo]- (9CI) (CA INDEX NAME)

L13 ANSWER 77 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

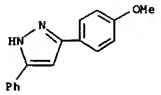


L13 ANSWER 78 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN

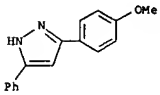
ACCESSION NUMBER: 1974:477631 CAPLUS
DOCUMENT NUMBER: 81:77631
TITLE: Reactions of thioureas and thioamides with aroylphenylacetylenes
AUTHOR(S): Basyouni, M. N.; Omar, M. T.
CORPORATE SOURCE: Chem. Dep., Ain Shams Univ., Cairo, Egypt
SOURCE: Australian Journal of Chemistry (1974), 27(7), 1585-9
CODEN: AJCHAS; ISSN: 0004-9425
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Reaction of PhC.tplbond.CCOC6H4R-p (R = H, Cl, MeO) with R1NHCSNHR2 (R1, R2 = H, Me, Ph) in MeOH gave (Z,Z)- and (E,Z)-(p-RC6H4COCH:CPh)2S, which on refluxing with N2H4 or PhNHNH2 in EtOH gave I (R = H, Cl, MeO,; R3 = H, Ph).
IT 32664-28-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 79 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1974:403850 CAPLUS
DOCUMENT NUMBER: 81:3850
TITLE: Phenylpropiolic acids. X. Addition of phenyl azide and certain nucleophilic reagents to acetylenic esters and ketones
AUTHOR(S): Badder, F. G.; Basyouni, M. N.; Fouli, F. A.; Awad, W. I.
CORPORATE SOURCE: Fac. Sci., Ain Shams Univ., Cairo, Egypt
SOURCE: Journal of the Indian Chemical Society (1973), 50(9), 589-93
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 81:3850
GI For diagram(s), see printed CA Issue.
AB PhN3 condensed with Et arylpropiolates (e.g. EtO2CC.tplbond.CPh) to give a mixture of 5-aryl-4-(ethoxycarbonyl)-1-phenyl-1,2,3-triazole (predominant) and 4-aryl - 5 - (ethoxycarbonyl) - 1-phenyl - 1,2,3 - triazole. The acid azides so derived were converted to the corresponding ureides I (R = aryl) by refluxing in benzene. Similarly, RC.tplbond.CPh (R = Bz, p-ClC6H4CO, p-MeC6H4CO) gave a mixture of the corresponding 4-aroyl-1,5-diphenyl- and 5-aroyl-1,4-diphenyl-1,2,3-triazoles. H2NNH2.H2O and PhNHNH2 condensed with aroyl-phenylacetylenes to give 3(5)-aryl-5(3)-phenylpyrazoles and 3-aryl-1,5-diphenylpyrazoles, resp.
IT 32664-28-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 80 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1973:536707 CAPLUS
DOCUMENT NUMBER: 79:136707
TITLE: Synthesis and reactions of α-bromobenzalacetophenones
AUTHOR(S): Sharma, T. C.; Patel, H.; Bokadia, M. M.
CORPORATE SOURCE: Sch. Stud. Chem., Vikram Univ., Ujjain, India
SOURCE: Indian Journal of Chemistry (1973), 11(7), 703-4
CODEN: IJOCAP; ISSN: 0019-5103
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Dehydrobromination of dibromochalcones (I) by KOH at room temperature results in the formation of α-bromobenzalacetophenones (II). Treatment of EtOH solns. of II with N2H4 in EtOH or alkaline cyclohexene at room temperature yields the same 1,5-diarylpyrazoles (III).
IT 32664-28-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)



L13 ANSWER 81 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1973:492210 CAPLUS
DOCUMENT NUMBER: 79:92210
TITLE: Herbicidal 1,2-dialkyl-3,5-diphenylpyrazolium salts
INVENTOR(S): Walworth, Bryant; Klingsberg, Erwin
PATENT ASSIGNEE(S): American Cyanamid Co.
SOURCE: Ger. Offen., 60 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 7
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2260485	A1	19730628	DE 1972-2260485	19721211
DE 2260485	C2	19831229		
ZA 7208412	A	19730725	ZA 1972-8412	19721127
DK 132203	B	19751110	DK 1972-6002	19721130
GB 1407278	A	19750924	GB 1972-55680	19721201
HU 165479	B	19740928	HU 1972-AE371	19721202
FR 2163473	A1	19730727	FR 1972-43254	19721205
AU 7249655	A	19740606	AU 1972-49655	19721205
CA 1020165	A1	19771101	CA 1972-158079	19721205
IT 974004	B	19740620	IT 1972-54623	19721211
NL 7217015	A	19730619	NL 1972-17015	19721214
NL 175018	B	19840416		
NL 175018	C	19840917		
CH 578323	A5	19760813	CH 1972-18253	19721214
BE 792801	A1	19730615	BE 1972-125367	19721215
DD 105383	A5	19740420	DD 1972-167594	19721215
AT 322270	B	19750512	AT 1972-10723	19721215
NO 136388	B	19770523	NO 1972-4653	19721215
FI 55752	C	19791010	FI 1972-3562	19721215
FI 55752	B	19790629		
SU 799628	A3	19810123	SU 1972-1865108	19721215
ES 409722	A1	19760401	ES 1972-409722	19721216
RO 66012	A1	19810830	RO 1972-73175	19721216
JP 48072329	A	19730929	JP 1972-127053	19721218
JP 58007627	B	19830210		
CS 196245	B2	19800331	CS 1972-8729	19721218
GB 1535053	A	19781206	GB 1975-48277	19751124
CA 1012788	A2	19770628	CA 1976-246759	19760227

PRIORITY APPLN. INFO.:

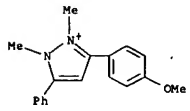
US 1971-209448	A	19711217
US 1972-271424	A	19720713
GB 1972-55680	A	19721201
CA 1972-158079	A3	19721205
US 1974-487826	A	19740712
US 1975-541900	A	19750117
GB 1975-26396	A	19750620
US 1975-598527	A	19750723

GI For diagram(s), see printed CA Issue.
AB Diarylpyrazolium salts I (R = Me, Et, Pr; R1 and R3 = H, 4-Me, 3-Me, 2-Me, 2-Cl, 3-Cl, 4-Cl, 4-OMe, 3-F; R2 and R4 = H, 4-Cl, 5-Cl, 5-Me; X = HSO4, MeSO4, 1/2 SO4, EtSO4, ClO4, Br, I, I3, p-MeC6H4SO3) were prepared Thus treatment of (PhCO)2CH2 with MeNHNH2 gave 94.5% 1-methyl-3,5-diphenylpyrazole, which with MeI gave 15% I (R = Me, R1-R4 = H, X = I). The latter at 1.01 lb/acre post-emergent gave >90% control of wild oats, with <10% damage to wheat.
IT 43222-51-1P 43222-52-2P 43222-61-3P

L13 ANSWER 81 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
43222-70-4P 43222-81-7P 43222-82-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 43222-51-1 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 49867-84-7
CMF C18 H19 N2 O



CM 2

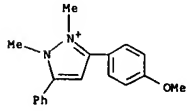
CRN 21228-90-0
CMF C H3 O4 S

Me-O-SO3-

RN 43222-52-2 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

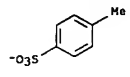
CRN 49867-84-7
CMF C18 H19 N2 O



CM 2

CRN 16722-51-3
CMF C7 H7 O3 S

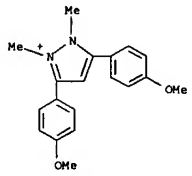
L13 ANSWER 81 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 43222-61-3 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 49868-24-8
CMF C19 H21 N2 O2



CM 2

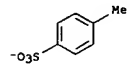
CRN 14797-73-0
CMF Cl O4

RN 43222-70-4 CAPLUS
CN 1H-Pyrazolium, 3-(4-methoxyphenyl)-1,2-dimethyl-5-phenyl-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 49867-84-7
CMF C18 H19 N2 O

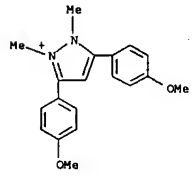
L13 ANSWER 81 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 43222-82-8 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, methyl sulfate (9CI) (CA INDEX NAME)

CM 1

CRN 49868-24-8
CMF C19 H21 N2 O2

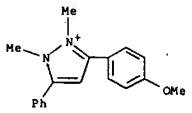


CM 2

CRN 21228-90-0
CMF C H3 O4 S

IT 43222-90-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(quaternization of)
RN 43222-90-8 CAPLUS
CN 1H-Pyrazole, 3,5-bis(4-methoxyphenyl)-1-methyl- (9CI) (CA INDEX NAME)

L13 ANSWER 81 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



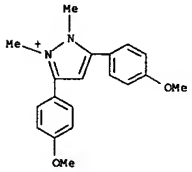
CM 2

CRN 14797-73-0
CMF Cl O4

RN 43222-81-7 CAPLUS
CN 1H-Pyrazolium, 3,5-bis(4-methoxyphenyl)-1,2-dimethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

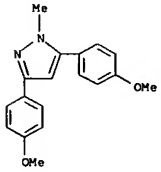
CRN 49868-24-8
CMF C19 H21 N2 O2



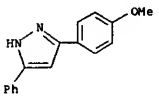
CM 2

CRN 16722-51-3
CMF C7 H7 O3 S

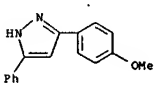
L13 ANSWER 81 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L13 ANSWER 85 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:501451 CAPLUS
DOCUMENT NUMBER: 77:101451
TITLE: Flavonoids. XXIV. Reaction of trans-chalcone epoxides and of their stereoisomeric hydrochlorides with hydrazine
AUTHOR(S): Litkei, Gyorgy; Neubauer, Alfred; Bognar, Rezso
CORPORATE SOURCE: Szerves- Kem. Tansz., Kossuth Lajos Tudomanyegy., Debrecen, Hung.
SOURCE: Magyar Kemiai Folyoirat (1972), 78(7), 359-63
CODEN: MGKFA3; ISSN: 0025-0155
DOCUMENT TYPE: Journal
LANGUAGE: Hungarian
AB The reaction of substituted trans-chalcone epoxides and their erythro- and threo-chlorohydrins with N2H4 was investigated. The epoxides reacted stereospecifically to yield trans-3,5-diaryl-4-hydroxy- 2-pyrazoline. Similarly the threo-chlorohydrins gave the trans isomers. The erythro-chlorohydrins gave the corresponding cis isomers. Dehydration of the hydroxypyrazoline derivs. was also examined
IT 32664-28-1P 36837-29-3P 36837-31-7P
36837-35-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32664-28-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl- (9CI) (CA INDEX NAME)



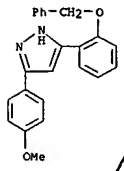
RN 36837-29-3 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

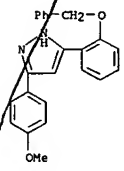
RN 36837-31-7 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-[2-(phenylmethoxy)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

L13 ANSWER 85 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

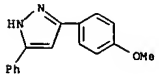


● HCl

RN 36837-35-1 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-[2-(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)

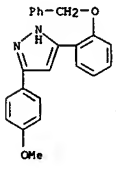


L13 ANSWER 86 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1972:475159 CAPLUS
DOCUMENT NUMBER: 77:75159
TITLE: Reaction of trans-chalcone epoxides and stereoisomers of chlorohydrins with hydrazine
AUTHOR(S): Neubauer, A.; Litkei, G.; Bognar, R.
CORPORATE SOURCE: Sekt. Chem., Humboldt-Univ. Berlin, Berlin, Ger. Dem. Rep.
SOURCE: Tetrahedron (1972), 28(12), 3241-50
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: German
AB Trans-Chalcone epoxides (I) and threo-1,3-diaryl-2-hydroxy-3-chloro-1-propanones (II) react stereospecifically with hydrazine to yield trans-3,5-diaryl-4-hydroxy-Δ2-pyrazolines. Cis-4-Hydroxy-Δ2-pyrazolines were prepared from the diastereomeric erythro chlorohydrins. Acetylation, dehydration, and nitrosation of 4-hydroxy-Δ2-pyrazolines are described.
IT 36837-29-3P 36837-31-7P 36837-35-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 36837-29-3 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-phenyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

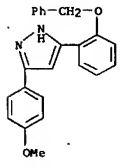
RN 36837-31-7 CAPLUS
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-[2-(phenylmethoxy)phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 36837-35-1 CAPLUS

L13 ANSWER 86 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 1H-Pyrazole, 3-(4-methoxyphenyl)-5-[2-(phenylmethoxy)phenyl]- (9CI) (CA INDEX NAME)



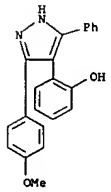
Karen Cheng

L13 ANSWER 90 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1965:74250 CAPLUS
DOCUMENT NUMBER: 62:74250
ORIGINAL REFERENCE NO.: 62:13155e-h
TITLE: Heterocyclic compounds
PATENT ASSIGNEE(S): Societe Belge de l'Azote et des Produits Chimiques du Marly, S. A.
SOURCE: 11 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6404788		19641102	NL 1964-4788	19640429
PRIORITY APPLN. INFO.:			GB	19630430

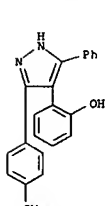
GI For diagram(s), see printed CA Issue.
AB I, in which X = O (II), NH (III), or NMe (IV), had antiinflammatory activity; pharmaceutical compns. were given. To 13.2 g. anhydrous Na2CO3 in 20 cc. H2O was added 8.28 g. NH2OH.-HCl, the paste added to 28 g. 2-ethyl-3-anisoylbenzofuran (V) in EtOH, the whole refluxed at least 4 hrs., the mixture poured into acidified H2O, the whole extracted with C6H6, the C6H6 layer washed with 5% KOH, and the aqueous phase acidified with dilute HCl to give 87% II (R = Et, R' = 4-MeOC6H4), m. 147° (CCl4). Similarly prepared were the following II (R, R', and m.p. given): Et, Me, 112°; Et, Et, 92-3°; Et, Bu, -- (oil); Et, H, 97-8°; Et, 2-MeOC6H4, 130-2°; Et, 3,4,5-(MeO)3C6H2, 158-9°; Et, Ph, 114-15°; Et, 2-thienyl, 122-3°; Et, 4-Et2NCH2CH2OC6H4, -- (HCl salt m. 175-6°); Et, 4-pyridyl, 176-7°; Bu, 4-Me-OC6H4, 68-70°; Bu, 4-HOC6H4, 166-8°; Et, 4-HOC6H4, 194-6°; Me, 4-MeOC6H4, 137-8°; Ph, Me, 158-60°; PhCH2, Me, -- (oil); and Et, 2-(4-hydroxyphenyl)ethenyl, 225-6°. To 28 g. V in 175 cc. absolute alc. was added 10.5 g. NaHCO3, 6.1 cc. 100% N2H4.H2O, and 4.5 cc. H2O, the whole refluxed 8 hrs., and the mixture poured into acidified (AcOH) H2O to precipitate 98% III (R = Et, R' = 4-MeOC6H4), m. 154-5° (C6H6-petr. ether). The following III were similarly prepared (R, R', and m.p. given): Et, Me, -- (HCl salt m. 192-4°);]Et, Bu, -- (HCl salt m. 210-13°); Et, 2-MeOC6H4, -- (HCl salt m. 245-9°);]Et, 3,4,5-(MeO)3C6H2, 167-8°; Et, Ph, 129-31°; Bu, 4-MeOC6H4, 164-5°; Et, 4-HO- C6H4, 193-4°; Bu, 4-HOC6H4, 170-2°; Et, H, 136-7°; Me, 4-MeOC6H4, 175-6°; PhCH2, 4-MeOC6H4.181-2°; Ph, Me, 160-1°; Ph, 4-MeOC6H4, 244-5°; PhCH2, Me, 135-6°; Et, 2-thienyl, 159-60°. V in absolute EtOH aqueous Na2CO3, and MeNH-NH2.H2SO4 refluxed 8 hrs. gave 71% IV (R = Et, R' = 4-Me-OC6H4), m. 162-3° (C6H6-petr. ether).
IT 100770-84-1P, Phenol, o-[3(or 5)-(p-methoxyphenyl)-5(or 3)-phenylpyrazol-4-yl]-
RL: PREP (Preparation)
(preparation of)
RN 100770-84-1 CAPLUS
CN Phenol, o-[3(or 5)-(p-methoxyphenyl)-5(or 3)-phenylpyrazol-4-yl]- (7CI)

L13 ANSWER 90 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
(CA INDEX NAME)



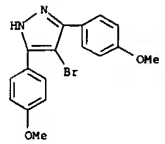
L13 ANSWER 91 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1964:461645 CAPLUS
DOCUMENT NUMBER: 61:61645
ORIGINAL REFERENCE NO.: 61:10671c-h,10672a-e
TITLE: The benzofuran series. XI. Synthesis of pyrazoles and isoxazoles from 3-oxobenzofurans
AUTHOR(S): Descamps, M.; Binon, F.; van der Elst, J.
SOURCE: Bulletin des Societes Chimiques Belges (1964), 73(5-6), 459-82
CODEN: BSCBAG; ISSN: 0037-9646
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. CA 60, 6102g. N2H4 and MeNHNH2 (I) with 3-oxobenzofurans (II) yielded a series of trisubstituted pyrazoles (III) having phenolic character. A series of phenolic isoxazoles (IV) was prepared from the appropriate II by the method of Royer and Bisaqni (CA 59, 15265f). The N-Et2NCH2CH2 derivs. of all phenolic III and IV were prepared The appropriate 2-substituted benzofuran condensed with a suitable acid chloride by the Friedel-Crafts method yielded the corresponding V (R, R', b.p./mm. or m.p., and n25D given): Et, 3,4,5-(MeO)3C6H2, 65° (C6H6-petr. ether), -; Et, o-MeOC6H4, 155-60°/1, 1.6232; Et, Bu, 112-13°/0.3, 1.5439; Bu, p-MeOC6H4 (VI), 160°/0.02, 1.6018; Ph, p-MeOC6H4, 82° (ligroine, b. 100-20°), -; Et, 3-isonicotinoyl, - [HCl salt m. 145° (absolute EtOH)], -. VI demethylated with C5H5N.HCl gave V (R = Bu, R' = p-HOC6H4), m. 120° (aqueous AcOH). The appropriate V (0.1 mole) and 0.15 mole N2H4.H2O in 150 cc. EtOH (with phenolic V, 0.1 mole Na2CO3 in 15 cc. H2O is added) refluxed 24 hrs. yielded the corresponding III (R, R', m.p., and % yield given): Me, p-MeOC6H4, 175° (MePh-petr. ether), 34; Et, Me (VII), - (oil)[purified via HCl salt, m. 192-4° (absolute EtOH-Et2O)], 66; Et, Bu, - (oil)[purified via HCl salt, m. 210-13° (absolute EtOH-Et2O)], 54; Et, Ph (VIII), 129-31° (C6H6), 66; Et, o-MeOC6H4, - (oil)[HCl salt, m. 245-9° (absolute EtOH-Et2O)], about 80° (crude); Et, p-MeOC6H4 (IX), 154-5° (MePh-petr. ether), 85; Et, 3,4,5-(MeO)3C6H2, 167-8° (C6H6petr. ether), 53; Et, p-HOC6H4, 193-4° (MePh), 68; Et, 2-thienyl, 159-60° (C6H6-petr. ether), 31; Bu, p-MeOC6H4, 164-5° (aq.EtOH), 62; Bu.p-HOC6H4, 172-3° (aq.EtOH), 63; Ph, Me, 160-1° (C6H6-petr. ether), 34 [and crude azine of V (R = Ph, R' = Me), b0.03 195-200°)]; Ph, p-MeOC6H4, 244-5° (cyclohexane-petr. ether), 65; PhCH2, Me, 135-6° (C6H6), 62. V (R = Et, R' = H) (17.4 g.) (X) gave similarly 5.3 g. III (R = Et, R' = H) (XI), m. 136-7° (C6H6-petr. ether) and 7 g. azine (XII) of X, m. 184° (C6H6). Similarly were prepared from the appropriate V with I the following XIII (R, R', m.p., and % yield given): Me, Et (aqueous I.H2SO4 was used), 161-3° (C6H6-petr. ether), 26; p-MeOC6H4, Et, 162-3° (C6H6-petr. ether), 71. V (R = Et, R' = Me) (XIV) with PhNHNH2 and 1 equivalent Na2CO3 yielded 53% phenylhydrazone, m. 198° (EtOH). Similarly were prepared the phenylhydrazone, m. 202° (C6H6-petr. ether), and the isopropylhydrazone, m. 160-1°, of V (R = Et, R' = p-MeOC6H4). The appropriate III (0.1 mole) and 6.6 g. 85% KOH in 100 cc. 94% EtOH treated with 21.5 g. Et2NCH2CH2Cl.HCl and 8.2 g. 85% KOH in 135 cc. EtOH and stirred 24 hrs. at 20°, and the resulting oily product treated in Et2O with dry HCl yielded the corresponding XV.2HCl (same data given): Me, p-MeOC6H4, 216-18°, 68; Et, H, 170-1°, 66; Et, Me, 188-90°, 64; Et, Bu, - [sesquioxalate m. 98-9° (absolute EtOH)], 57; Et, Ph, 165-8°, 37; Et, o-MeOC6H4, 189-91°, 35; Et, p-MeOC6H4 (XVI), 196-8°, 68; Et, 3,4,5-(MeO)3C6H2, 210-12°, 60°; Bu, p-MeOC6H4, 176-8°, 56; Ph, Me, 219-21°, 46; PhCH2, Me,

L13 ANSWER 91 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
1069°, 47. Similarly were prepd. the N-Me deriv. of XVI, m. 1702°, 48%, and the N-Et2NCH2CH2 deriv. of IX dioxalate, m. 129-31° (EtOH), 10.4%. By the method of R. and B. (loc. cit.) were prepd. the following IV (same data given): Me, p-MeOC6H4, 137-8° (aq. EtOH), 52; Et, Bu, - (oil), 49; Et, o-MeOC6H4, 130-2° (aq. EtOH), 73; Et, p-MeOC6H4 (XVII), 147° (EtOH), 90; Et, 3,4,5-(MeO)3C6H2, 158-9° (C6H6-petr. ether), 56; Et, p-HOC6H4, 194-6° (xylene), 71 (also obtained by refluxing XVII 8 hrs. with 25% HBr-AcOH); Et, p-HOC6H4CH:CH, 225-6° (AcOH), 33; Et, 2-thienyl, 122-3° (aq. EtOH), 24; Et, 4-pyridyl, 177-8° (C6H6-petr. ether), 67; Bu, p-MeOC6H4, 68-70° (C6H6-petr. ether), 84; Bu, p-HOC6H4, 166-8° (C6H6), 73; Ph, Me, 158-60° (C6H6-petr. ether), 18; PhCH2, Me, - (oil), 66. The appropriate IV (0.1 mole) in the min. vol. MeOH added to 2.3 g. Na in 25 cc. MeOH, treated with 100 cc. (EtO)2CO, distd. to 125°, cooled to 45°, treated with 0.12 mole Et2NCH2CH2Cl in 50 cc. (EtO)2CO, and heated 15 hrs. at 70-80°, and the product treated in dry Et2O with dry HCl or (CO2H)2 gave the corresponding XVIII (R, R', salt, m.p., and % yield given): Me, p-MeOC6H4, HCl, 156-7° (EtOH-Et2O), 44; Et, H, oxalate, 100-1° (EtOH Et2O), 14; Et, Me, HCl, 174-6° (EtOH Et2O), 46; Et, Bu, oxalate, 134-5° (EtOH), 42; Et, Ph, oxalate, 129-30° (EtOH-Et2O), 45; Et, o-MeOC6H4, oxalate 157-8° (EtOH-Et2O), 58; Et, p-MeOC6H4, HCl, 111-13° (EtOH-Et2O), 81; Et, p-Et2NCH2CH2OC6H4, dioxalate, 154-6° (EtOH), 76; Et, 3,4,5-(MeO)3C6H2, oxalate, 124-5° (EtOH-Et2O), 30; Et, p-Et2NCH2CH2C6H4CH: CH, dioxalate, 138-9° (Me2CO), 47; Et, 2-thienyl, HCl, 149-50° (EtOHEt2O), 47; Et, 4-pyridyl, oxalate, 146° (EtOH), 80; Bu, p-MeOC6H4, HCl, 143-4° (EtOH), 60; Bu, p-Et2NCH2CH2OC6H4, dioxalate, 148-50° (EtOH-Et2O), 77; Ph, Me, HCl, 157-8° (EtOH-Et2O), 55; PhCH2, Me, HCl, 165-6° (EtOH-Et2O), 52. The ultraviolet absorption spectra of VII, VIII, X, XI, XII, XIV, and V (R = Et, R' = Ph) are recorded.
IT 100770-84-1P, Phenol, o-[3(or 5)-(p-methoxyphenyl)-5(or 3)-phenylpyrazol-4-yl]-
RL: PREP (Preparation)
(preparation of)
RN 100770-84-1 CAPLUS
CN Phenol, o-[3(or 5)-(p-methoxyphenyl)-5(or 3)-phenylpyrazol-4-yl]- (7CI)
(CA INDEX NAME)

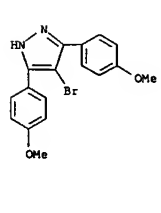


L13 ANSWER 92 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1961:124789 CAPLUS
DOCUMENT NUMBER: 55:124789
ORIGINAL REFERENCE NO.: 55:23496g-i,23497a-b
TITLE: Pyrazoles. XIV. Dehydrogenation of pyrazolines with functional substituents directly in the pyrazoline nucleus by means of sulfur
AUTHOR(S): Grandberg, I. I.; Ting, Wei-P'i; Kost, A. N.; Kozlova, V. I.
CORPORATE SOURCE: State Univ., Moscow
SOURCE: Zhurnal Obshchei Khimii (1961), 31, 544-8
CODEN: ZOKHA4; ISSN: 0044-460X
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. CA 54, 505b; 55, 18710h, 22292e. N-Acyl pyrazolines were dehydrogenated by S to pyrazoles without N-substituents, but pyrazolines with CN, CO2Et or CO groups at the C-atoms of the ring were not dehydrogenated by S. It was suggested that the dehydrogenation of the N-formyl derivs. occurred by formation of N-formylpyrazoles, which formed unstable N-thiocarbamic acids, which lost COS to form the pyrazoles. Distillation in vacuo of 26.8 g. 5-phenylpyrazoline with 30 ml. 85% HCO2H gave 70% 1-formyl-5-phenylpyrazoline (I), b8 180-7°, m. 69-70°. Similarly was prepared 74.2% 1-Ac analog, b6 180-2°, m. 53-4°. Bz2O in C6H6 refluxed 1 hr. with I gave 81% 1-benzoyl-5-phenylpyrazoline, m. 98-9°. 3,5-Diphenylpyrazoline and Ac2O refluxed 15 min. gave 82% 1-Ac derivative, m. 129-30°. Refluxing 84 g. 1-formyl-4-ethyl-5-propylpyrazoline with 32 g. S 16 hrs. gave 50% 4-ethyl-5-propylpyrazole, b17 137-41°, n20D 1.4872, d20 0.9397 (picrate m. 133°), H2S, and COS. Similarly, 1-formyl-4-isopropyl-5-isobutylpyrazoline gave 34% 4-isopropyl-5-isobutylpyrazole, b13 144-8°, 1.4800, 0.9064 (picrate m. 71°), 1-formyl-5-phenylpyrazoline in 1.5 hrs. gave 53% 3(5)-phenylpyrazole, b20 200-4°, m. 76°, and 1-acetyl-3,5-diphenylpyrazoline gave 84% 3,5-diphenylpyrazole, b160 317°, m. 204°. 1-Benzoyl-5-phenylpyrazoline similarly treated gave BzOH and 51.5% 3(5)-phenylpyrazole. Di-Et fumarate and CH2N2 gave 98% di-Et pyrazoline-3,4-dicarboxylate, m. 87-8°, which heated with S to 150-80° gave 66% di-Et cyclopropane-1,2-dicarboxylate, b11 107-8°, d20 1.0570. Heating 3-cyano-4-phenylpyrazoline with S at 180-200° gave a little H2S and yielded only tars. The same results were obtained from 3-acetyl-4-phenylpyrazoline.
IT 76973-57-4P, Pyrazole, 4-bromo-3,5-bis(p-methoxyphenyl)-
RL: PREP (Preparation)
(preparation of)
RN 76973-57-4 CAPLUS
CN 1H-Pyrazole, 4-bromo-3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

L13 ANSWER 92 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

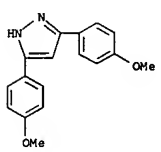


L13 ANSWER 93 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1961:124788 CAPLUS
DOCUMENT NUMBER: 55:124788
ORIGINAL REFERENCE NO.: 55:23496e-g
TITLE: Reactive methylene compounds. II. Preparation of 2-bromo-substituted diphenylpropane-1,3-diones
AUTHOR(S): Garg, H. G.; Joshi, S. S.
CORPORATE SOURCE: Meerut Coll., India
SOURCE: Journal of Organic Chemistry (1961), 26, 948-9
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 55:124788
GI For diagram(s), see printed CA Issue.
AB cf. CA 51, 2539f. RC6H4CO2Et (1 mole), 1 mole R'C6H4COMe, and 1 g. atom Na kept several days in Et2O at 0° gave the β-diketone Na salt (I). I taken up in ice-cold diluted AcOH, extracted with Et2O and the extract shaken with aqueous Cu(OAc)2 gave a voluminous precipitate, crystallized from CHCl3 to give the β-diketone Cu salt (II). I or II in CCl4 treated with 1 mole Br in CCl4 at 0°, filtered from the precipitated bromide and the filtrate concentrated gave the 2-bromo-substituted diphenylpropane-1,3-diones, RCOCHBrCOR' (III), recrystd. from alc. Equimolar amts. of III and N2H4.H2O refluxed 1 hr. in AcOH and the products crystallized from alc. gave the 4-bromopyrazoles, RC:N.NH.CR':CBr (IV). Characteristics of these prepns. are listed (R, R', m.p., % yield III from Na (and Cu) salts, m.p., and % yield IV given): Ph, Ph, 93°, 60(79), 198°, 72; Ph, p-BrC6H4, 114°, 70(81), 223° 67; Ph, p-ClC6H4, 118°, 68(80), 221°, 68; Ph, p-MeOC6H4, 128°, 54(79), 178°, 63; Ph, p-MeC6H4, 110°, 62(80), 172°, 65; p-MeOC6H4, p-MeOC6H4, 97°, - (81), 228°, 64. III did not react with aqueous Cu(OAc)2 and gave no color change with alc. FeCl3. Treatment with alc. KI regenerated the original β-diketone with liberation of iodine.
IT 76973-57-4P, Pyrazole, 4-bromo-3,5-bis(p-methoxyphenyl)-
RL: PREP (Preparation)
(preparation of)
RN 76973-57-4 CAPLUS
CN 1H-Pyrazole, 4-bromo-3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

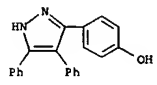


L13 ANSWER 94 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1959:72606 CAPLUS
DOCUMENT NUMBER: 53:72606
ORIGINAL REFERENCE NO.: 53:13171d-i,13172a-b
TITLE: Preparation of 3,5-diarylpyrazoles and 3,7-diaryl-4,5-dihydro-1,2-diazepines
AUTHOR(S): Lipp, Maria; Dallacker, Franz; Munnes, Siegfried
CORPORATE SOURCE: Tech. Hochschule, Aachen, Germany
SOURCE: Ann. (1958), 618, 110-17
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Aromatic 1,3- and 1,5-diketones substituted in the p-position are treated with N2H4.H2O. (p-FC6H4CO)2CH2, m. 109°, (p-BrC6H4CO)2CH2, m. 184°, and (p-IC6H4CO)2CH2, m. 240°, are prepared in 12-16% yields by heating to 45° the complex from the corresponding p-XC6H4COCl, AlCl3, and CHCl2CHCl2, adding CH2:CHOAc dropwise at 20-30°, decomposing with ice and concentrated aqueous HCl, and boiling with Na2CO3 solution Similar procedures are also possible with β-methyl- or β,β-dimethylglutaric acid dichloride or unbranched glutaric acid dichloride and p-alkoxybenzenes, p-cyclohexylbenzene, and mesitylene to form the following 1,5-diaryl-1,5-pentanediones (m.p. given): 1,3-dibenzoylpropane, 63°; 1,3-bis(p-methoxybenzoyl)propane, 99°; 1,3-bis(p-methoxybenzoyl)-2-methyl propane, -; 1,3-bis(p-methoxybenzoyl)-2,2-dimethylpropane, -; 1,3-bis(p-ethoxybenzoyl)propane, 112.5°; 1,3 bis(p-propoxybenzoyl)propane, 88°; 1,3-bis(p-butoxybenzoyl)propane, 85°; 1,3-bis(p-n-pentoxybenzoyl)propane m. 75°; 1,3-bis(p-n-hexyloxybenzoyl)propane, 85°; 1,3-bis(p-n-hexylbenzoyl)propane, 130°; 1,3-bis(p-n-hexylbenzoyl)-2-methylpropane, - (b5 130-90°); 1,3-bis(2,4,6-trimethylbenzoyl)propane, 132.5°; 1,3-bis(2,4,6-trimethylbenzoyl)-2-methyl-propane, - (b2 200-20°); 1,3-bis(2,4,6-trimethylbenzoyl)-2,2-dimethylpropane, 114.5°. 1,2,3-Trimethoxybenzene (2 moles) and 1 mole glutaric acid dichloride did not yield bis(3,4,5-trimethoxybenzoyl)propane but cleavage of the 4-methoxy group produced disyringoylpropane (I), m. 119.5°. Condensation of the bis(p-haloaroyl)methanes in iso-PrOH with AcOH and N2H4.H2O under reflux 2 hrs. and cooling gives 45-95% yields of the following pyrazoles (m.p. given): 3,5-dibenzoylpyrazole, 193.5°; 3,5-dibenzoyl-4-methylpyrazole, 229.5°; 3,5-dibenzoyl-4-ethylpyrazole, 167°; 3,5-bis(p-nitrobenzoyl)pyrazole, 266°; 3,5-bis(D-methoxybenzoyl)pyrazole, 172°; 3,5-bis(p-fluorobenzoyl)pyrazole, 209°; 3,4-bis(p-chlorobenzoyl)pyrazole, 237°; 3,4-bis(p-bromobenzoyl)pyrazole, 251°; 3,5-bis(p-iodobenzoyl)pyrazole, 269°. Similar condensation of the 1,3-diaroylpropanes with N2H4.H2O gives 63-98% yields of the following diazepines (m.p. given): 3,7-diphenyl-4,5-dihydro-1,2-diazepine, 153° (1-p-nitrobenzoyl derivative m. 195.6°); 3,7-bis(p-methoxyphenyl)-4,5-dihydro-1,2-diazepine, 189°; 3,7-bis(p-methoxyphenyl)-4,5-dihydro-5-methyl-1,2-diazepine, 147.8° (1-p-nitrobenzoyl derivative m. 217.5°); 3,7-bis (p-methoxyphenyl)-4,5-dihydro-5,5-dimethyl-1,2-diazepine, 189.5°; 3,7-bis(p-ethoxyphenyl)-4,5-dihydro-1,2-diazepine, 193.5°; 3,7-bis(p-propoxyphenyl)-4,5-dihydro-1,2-diazepine, 160.5°; 3,7-bis(p-butoxyphenyl)-4,5-dihydro-1,2-diazepine, 152°; 3,7-bis(p-n-pentoxyphenyl)-4,5-dihydro-1,2-diazepine, 140.5°; 3,7-bis(p-n-hexyloxyphenyl)-4,5-dihydro-1,2-diazepine, 130.5°; 3,7-bis(p-n-hexylphenyl)-4,5-dihydro-1,2-diazepine, 242.5°; 3,7-bis(p-n-hexylphenyl)-4,5-dihydro-5-methyl-1,2-diazepine, 203°. Infrared spectrum data are given for the new compds. whose physiol. activity is to be investigated.
IT 75059-30-2P, Pyrazole, 3,5-bis(p-methoxyphenyl)-

L13 ANSWER 94 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RL: PREP (Preparation)
(prepn. of)
RN 75059-30-2 CAPLUS
CN 1H-Pyrazole, 3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)



L13 ANSWER 95 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
p-MeOC6H4CH:CHNO2 kept 90 hrs. at room temp. yielded 1.5 g. p-MeOC6H4 analog of II, m. 136-7° (decompn.), which was hydrogenated in the usual manner to 100% p-MeOC6H4 analog (VII) of IV, m. 213-14° (EtOH). VII (6.7 g.), 5.0 g. NaOH, and (HOCH2CH2)2OH refluxed 22 hrs., dild. with 600 cc. H2O, and acidified with HCl gave 1.0 g. IV.
IT 112867-46-6P, Phenol, p-[4,5(or 3,4)-diphenylpyrazol-3(or 5)-yl]-
RL: PREP (Preparation)
(preparation of)
RN 112867-46-6 CAPLUS
CN Phenol, p-[4,5(or 3,4)-diphenylpyrazol-3(or 5)-yl]- (6CI) (CA INDEX NAME)



L13 ANSWER 95 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1958:61130 CAPLUS
DOCUMENT NUMBER: 52:61130
ORIGINAL REFERENCE NO.: 52:11008g-i,11009a-c
TITLE: Reaction of diazo compounds with nitroolefins. V. The orientation of addition of disubstituted diazo compounds to nitroolefins
AUTHOR(S): Parham, Wm. E.; Serres, Carl, Jr.; O'Connor, Paul R.
CORPORATE SOURCE: Univ. of Minnesota, Minneapolis
SOURCE: Journal of the American Chemical Society (1958), 80, 588-90
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 49, 10905b. It was shown, by radio tracer studies, that disubstituted diazomethane adds to nitroolefins of the type RCH:CHNO2 to give pyrazolines in which the diazo N atom becomes attached to the β-C atom of the nitroolefin in contrast to the orientation generally observed for addns. involving CH2N2 or monosubstituted diazomethane. KOH (1.2 g.) in 40 cc. absolute EtOH added at 2° to 1.0 g. MeNO2, 3.45 g. p-PhCH2OC6H4CHO, and 175 cc. iso-PrOH, the mixture kept 1.5 hrs. at 0°, diluted with 500 cc. iced H2O, poured into ice and H2O containing 12 cc. concentrated HCl, and filtered, and the residue recrystd. from EtOH gave 3.3 g. p-PhCH2OC6H4CH:CHNO2 (I), m. 121-2° (EtOH). Similar runs in MeOH and EtOH gave 20-5 and 55-65% I, resp. C14H3NO2 (1.0 g.) (about 1/3 millicurie) gave I-C14. I (3.30 g.) and 2.60 g. Ph2CN2 in 30 cc. C6H6 kept at room temperature 1-3 weeks, treated with an addnl. 1.0 g. Ph2CN2, and kept again 1 week, and the precipitate washed with cold petr. ether, C6H6, and EtOH yielded 2.45 g. 3-(p-benzyloxyphenyl)-4-nitro-5,5-diphenylpyrazoline (II), m. 130.5-1.5° (C6H6). II (2.35 g.), 300 cc. absolute EtOH, and 23 cc. concentrated HCl refluxed about 3 hrs., added to 1 l. H2O, and neutralized with 10% aqueous NaOH yielded 2.0 g. pyrazole analog (III) of II, m. 214.5-15.5° (EtOH). III (2.0 g.), 200 cc. absolute EtOH, and 0.5 g. 10% Pd-C shaken 4 hrs. at 52° under H, filtered through Hi-flo, and poured into 1 l. H2O yielded 1.40 g. 3-(p-hydroxyphenyl)-4,5-diphenylpyrazole (IV), needles, m. 248-9° (EtOH). IV-C14 (0.350 g.) diluted with 0.650 g. IV gave IV-C14 (1003 ± 6 counts/min.). IV (0.25 g.), 5 drops saturated aqueous NaOH, 0.5 g. KMnO4, and H2O heated on the steam bath, the mixture treated during 2 hrs. with 2 addnl. 0.5-g. samples KMnO4, heated 5 hrs., treated with MeOH, and filtered hot, the filtrate acidified and filtered, and the filter residue (0.2 g.) extracted with hot H2O to remove the BzOH left approx. 0.1 g. 4,5-diphenylpyrazole-3-carboxylic acid (V), m. 266-7°. IV (0.770 g.), 0.3 g. NaOH, 9.0 g. KMnO4, 40 cc. H2O, and 40 cc. Me3COH refluxed 48 hrs., treated with MeOH, and distilled to remove the Me3COH, the residual mixture filtered hot, acidified strongly with HCl, and extracted with Et2O, and the extract worked up gave 50-65% BzOH. A similar run with the IV-C14 gave BzOH-C14 (1515 counts/min.) (C14O2, 268 ± 6 counts/min.) indicating structure VI. Ph2CN2 (4.0 g.) and 3.69 g.

L13 ANSWER 96 OF 96 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1947:23953 CAPLUS
DOCUMENT NUMBER: 41:23953
ORIGINAL REFERENCE NO.: 41:4786h-i,4787a-e
TITLE: Nitration of dianisoylmethane and p-methoxydesoxybenzoin
AUTHOR(S): van Steenis, J.
CORPORATE SOURCE: Univ. Leiden
SOURCE: Recueil des Travaux Chimiques des Pays-Bas et de la Belgique (1947), 66, 29-46
CODEN: RTCPB4; ISSN: 0370-7539
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB CH2(COCl)2 (12.5 g.) and 30 g. PhOMe in 50 mL. CS2, treated with 22.5 g. AlCl3 and the mixture refluxed 2 h., give only 3% CH2(COC6H4-OMe-p)2 (I) and a small quantity of anisoylacetic acid, m. 180° (decomposition); the greater part of the reaction product is a resin. p-MeOC6H4CO2Et and p-AcC6H4OMe with NaNH2 in ether give 50% I. With Cu(OAc)2 and FeCl3. I gives a gray-green and a red precipitate, resp. I and N2H4.H2O give 3,5-bis(p-methoxyphenyl)pyrazole, m. 173°; PhNHNH2 gives 1-phenyl-3,5-bis(p-methoxyphenyl)pyrazole, m. 163°. I, m-C6H4(OH)2, and dry HCl in AcOH give 2,4-bis(p-methoxyphenyl)-7-oxo-1,2-benzopyran (II) hydrate, deep red-violet; it loses 1 mol. H2O at 110°. Nitration at 0° of 1 g. I in 10 mL. Ac2O with 0.5 mL. absolute HNO3 gives a mixture, m. 172°, of p-MeOC6H4CO2H and its 3-NO2 derivative (the m.-p. curve of this system is given); with 1.5 mL. HNO3, the mixture obtained m. 194°. The residue from the mixed acids (extracted with 20 mL. boiling H2O), treated with AcOH, gives di-p-anisoylnitromethane (III), m. 167°; 0.27 g. III, refluxed 0.5 h. with 10% aqueous NaOH, gives 0.18 g. p-MeOC6H4CO2H; III does not give a condensation product with PhNHNH2; N2H4.H2O gives a saltlike H2O-soluble compound which was not studied. I (1 g.), slowly added to 10 mL. absolute HNO3 at a temperature below -10°, gives 4,3,5-MeO(O2N)2C6H2CO2H, which results also on boiling 0.5 h. 1 g. I in 15 mL. absolute HNO3. CH2Bz2 and HNO3 in Ac2O give dibenzoylnitromethane, m. 101°. The reactions of I can be explained by its existence, at least in part, as an enol structure. p-MeOC6H4COCH2Ph (IV) (1 g.) in 10 mL. Ac2O, treated at 0° with 1.5 mL. absolute HNO3, gives 0.5 g. 3,4'-dinitro-4-methoxydesoxybenzoin (V), m. 153°; with NaOH it gives a violet color; oxime, yellow-brown, m. 178-80°. IV (1 g.), slowly added to 15 mL. absolute HNO3 (temperature not above -10°), the mixture warmed to room temperature, poured onto 50 g. ice, and the precipitate extracted with 50 mL. boiling EtOH, gives 2,4-(O2N)2C6H3OMe; the aqueous filtrate contains 2,4-(O2N)2C6H3CH2CO2H; the mother liquor from the EtOH fraction, treated with AcOH at room temperature, gives 0.02 g. 3,5,4'-trinitro-4-methoxydesoxybenzoin, m. 159°; the same compound resulted on nitration of V; the 5-position for the 3rd NO2 group is not established. A table of qual. solubilities of the various compds. is given.
IT 75059-30-2P, Pyrazole, 3,5-bis(p-methoxyphenyl)-
RL: PREP (Preparation)
(preparation of)
RN 75059-30-2 CAPLUS
CN 1H-Pyrazole, 3,5-bis(4-methoxyphenyl)- (9CI) (CA INDEX NAME)

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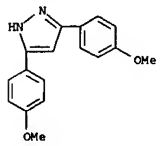

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